GCMP

GREATER CLEVELAND MATHEMATICS PROGRAM

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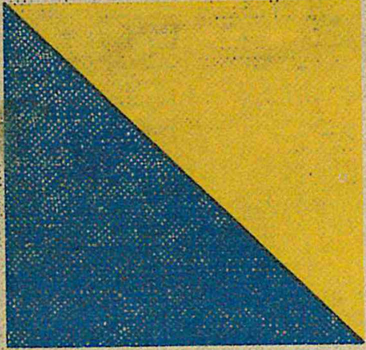

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MATHEMATICS

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TEACHER'S EDITION

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GREATER CLEVELAND MATHEMATICS PROGRAM

TEACHER'S EDITION

ADAPTED WORK TEXT: 1964 EDITION

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Prepared by the staff of
the Educational Research Council
of Greater Cleveland, assisted by teachers
from the participating Council Schools.

Co-ordinators: Tina Thoburn and Lucille McCraith

SRA

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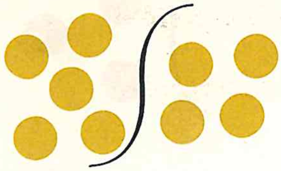
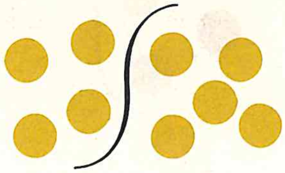
ADDITION AND SUBTRACTION



$5 + 4 = \boxed{9}$



$4 + 5 = \boxed{9}$

Copy and complete each equation.

1a $6 + 3 = \boxed{9}$ 1b $3 + 6 = \boxed{9}$

2a $2 + 7 = \boxed{9}$ 2b $7 + 2 = \boxed{9}$

3a $5 + 4 = \boxed{9}$ 3b $4 + 5 = \boxed{9}$

4a $0 + 9 = \boxed{9}$ 4b $9 + 0 = \boxed{9}$

5a $8 + 1 = \boxed{9}$ 5b $1 + 8 = \boxed{9}$

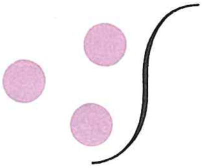
6a $3 + 5 = \boxed{8}$ 6b $5 + 3 = \boxed{8}$

7a $2 + 4 = \boxed{6}$ 7b $4 + 2 = \boxed{6}$

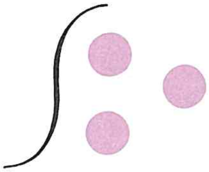
8a $3 + 2 = \boxed{5}$ 8b $2 + 3 = \boxed{5}$

Addition is commutative.

Note: All answers in this book are printed in red.



$3 + \boxed{4} = 7$



$\boxed{4} + 3 = 7$

Copy and complete each equation.

① $8 + \boxed{1} = 9$

② $4 + \boxed{0} = 4$

③ $5 + \boxed{2} = 7$

④ $1 + \boxed{5} = 6$

⑤ $3 + \boxed{2} = 5$

⑥ $6 + \boxed{1} = 7$

⑦ $0 + \boxed{7} = 7$

⑧ $4 + \boxed{4} = 8$

⑨ $\boxed{0} + 9 = 9$

⑩ $\boxed{7} + 2 = 9$

⑪ $\boxed{2} + 3 = 5$

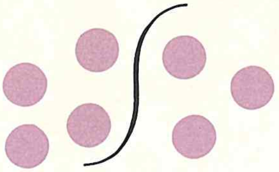
⑫ $\boxed{3} + 5 = 8$

⑬ $\boxed{5} + 4 = 9$

⑭ $\boxed{1} + 2 = 3$

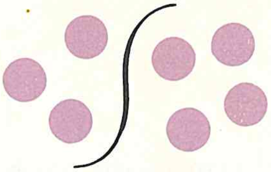
⑮ $\boxed{0} + 5 = 5$

⑯ $\boxed{5} + 1 = 6$



$4 + \boxed{3} = 7$

$7 - \boxed{3} = 4$



$3 + \boxed{4} = 7$

$7 - \boxed{4} = 3$

Copy and complete each equation.

(1a) $6 + \boxed{3} = 9$

(1b) $9 - \boxed{3} = 6$

(1c) $3 + \boxed{6} = 9$

(1d) $9 - \boxed{6} = 3$

(2a) $2 + \boxed{5} = 7$

(2b) $7 - \boxed{5} = 2$

(2c) $5 + \boxed{2} = 7$

(2d) $7 - \boxed{2} = 5$

(3a) $8 + 1 = \boxed{9}$

(3b) $\boxed{9} - 1 = 8$

(3c) $1 + 8 = \boxed{9}$

(3d) $\boxed{9} - 8 = 1$

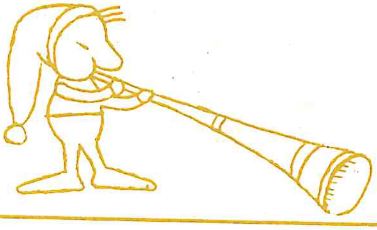
(4a) $\boxed{5} + 3 = 8$

(4b) $8 - 3 = \boxed{5}$

(4c) $\boxed{3} + 5 = 8$

(4d) $8 - 5 = \boxed{3}$

The operation of subtracting a number
is the inverse of adding that number.



Copy and complete each equation.

1a $\boxed{8} = 6 + 2$

1b $\boxed{8} = 2 + 6$

1c $\boxed{6} = 8 - 2$

1d $\boxed{2} = 8 - 6$

2a $\boxed{4} = 4 + 0$

2b $\boxed{4} = 0 + 4$

2c $\boxed{4} = 4 - 0$

2d $\boxed{0} = 4 - 4$

3a $\boxed{5} = 2 + 3$

3b $\boxed{5} = 3 + 2$

3c $\boxed{2} = 5 - 3$

3d $\boxed{3} = 5 - 2$

4a $\boxed{7} = 3 + 4$

4b $\boxed{7} = 4 + 3$

4c $\boxed{3} = 7 - 4$

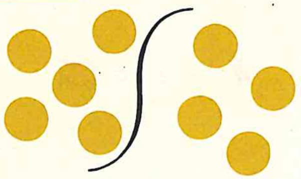
4d $\boxed{4} = 7 - 3$

5a $\boxed{9} = 2 + 7$

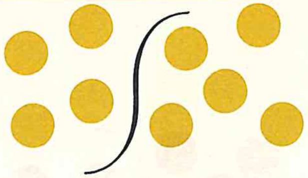
5b $\boxed{9} = 7 + 2$

5c $\boxed{2} = 9 - 7$

5d $\boxed{7} = 9 - 2$



$9 - 4 = \boxed{5}$



$9 - 5 = \boxed{4}$

Copy and complete each equation.

① $9 - 8 = \boxed{1}$

② $6 - 0 = \boxed{6}$

③ $5 - 5 = \boxed{0}$

④ $9 - 2 = \boxed{7}$

⑤ $6 - 2 = \boxed{4}$

⑥ $5 - 1 = \boxed{4}$

⑦ $7 - 2 = \boxed{5}$

⑧ $8 - 5 = \boxed{3}$

⑨ $9 - 6 = \boxed{3}$

⑩ $8 - 1 = \boxed{7}$

⑪ $1 - 0 = \boxed{1}$

⑫ $8 - 2 = \boxed{6}$

⑬ $7 - 4 = \boxed{3}$

⑭ $8 - 0 = \boxed{8}$

⑮ $9 - 9 = \boxed{0}$

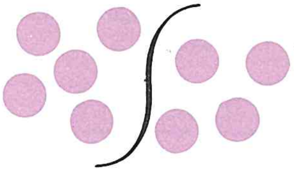
⑯ $7 - 5 = \boxed{2}$

⑰ $6 - 4 = \boxed{2}$

⑱ $3 - 2 = \boxed{1}$

⑲ $4 - 1 = \boxed{3}$

⑳ $5 - 3 = \boxed{2}$



$9 - 4 = \boxed{5}$

$9 - 4 = \boxed{5}$

$9 - \boxed{4} = 5$

$\boxed{9} - 4 = 5$

Copy and complete each equation.

① $9 - \boxed{8} = 1$

② $5 - \boxed{5} = 0$

③ $6 - \boxed{2} = 4$

④ $7 - \boxed{4} = 3$

⑤ $7 - \boxed{5} = 2$

⑥ $8 - \boxed{1} = 7$

⑦ $9 - \boxed{3} = 6$

⑧ $8 - \boxed{4} = 4$

⑨ $\boxed{8} - 2 = 6$

⑩ $\boxed{0} - 0 = 0$

⑪ $\boxed{7} - 2 = 5$

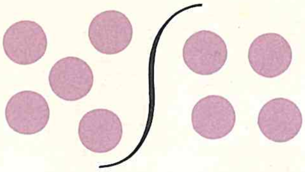
⑫ $\boxed{5} - 1 = 4$

⑬ $\boxed{9} - 6 = 3$

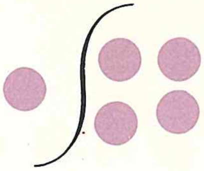
⑭ $\boxed{6} - 0 = 6$

⑮ $\boxed{9} - 5 = 4$

⑯ $\boxed{5} - 4 = 1$



$5 \overset{+}{\triangle} 4 = 9$



$5 \overset{-}{\triangle} 4 = 1$

Copy each problem and write the correct sign, + or −, in each △.

① $7 \overset{-}{\triangle} 6 = 1$

② $1 \overset{+}{\triangle} 6 = 7$

③ $6 \overset{-}{\triangle} 6 = 0$

④ $3 \overset{+}{\triangle} 3 = 6$

⑤ $9 \overset{-}{\triangle} 3 = 6$

⑥ $8 \overset{+}{\triangle} 0 = 8$
or −

⑦ $0 \overset{+}{\triangle} 3 = 3$

⑧ $4 \overset{+}{\triangle} 2 = 6$

⑨ $3 \overset{+}{\triangle} 2 = 5$

⑩ $0 \overset{+}{\triangle} 5 = 5$

⑪ $9 \overset{-}{\triangle} 5 = 4$

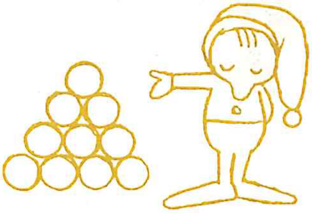
⑫ $6 \overset{-}{\triangle} 4 = 2$

⑬ $5 \overset{+}{\triangle} 2 = 7$

⑭ $4 \overset{+}{\triangle} 1 = 5$

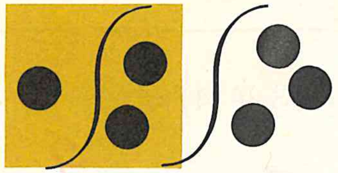
⑮ $9 \overset{+}{\triangle} 0 = 9$
or −

⑯ $4 \overset{-}{\triangle} 2 = 2$



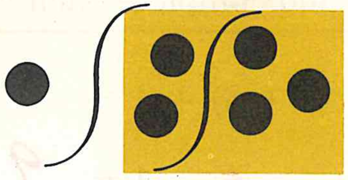
Find the sums and differences.

	A	B	C	D	E	F
①	6 + 3 9	2 + 7 9	4 − 3 1	7 − 5 2	8 − 3 5	6 + 2 8
②	3 + 5 8	6 − 4 2	4 + 5 9	9 − 4 5	3 + 6 9	7 − 4 3
③	7 − 3 4	5 + 2 7	8 + 0 8	9 − 7 2	6 − 5 1	3 + 4 7
④	1 + 7 8	8 − 6 2	5 − 3 2	4 + 4 8	6 + 0 6	7 − 6 1
⑤	8 − 5 3	5 + 3 8	9 − 6 3	3 + 3 6	7 − 2 5	3 + 2 5



$(1 + 2) + 3 =$

$\boxed{3} + 3 = \underline{6}$



$1 + (2 + 3) =$

$1 + \boxed{5} = \underline{6}$

Copy and complete each equation.

1a $(2 + 2) + 1 =$

$\boxed{4} + 1 = \underline{5}$

1b $2 + (2 + 1) =$

$2 + \boxed{3} = \underline{5}$

2a $(1 + 3) + 4 =$

$\boxed{4} + 4 = \underline{8}$

2b $1 + (3 + 4) =$

$1 + \boxed{7} = \underline{8}$

3a $(5 + 1) + 2 =$

$\boxed{6} + 2 = \underline{8}$

3b $5 + (1 + 2) =$

$5 + \boxed{3} = \underline{8}$

4a $(1 + 2) + 6 =$

$\boxed{3} + 6 = \underline{9}$

4b $1 + (2 + 6) =$

$1 + \boxed{8} = \underline{9}$

🔑. Addition is associative.

Copy and complete each equation.

ⓐ $(2 + 3) + 4 =$
$\boxed{5} + 4 = \underline{9}$

ⓑ $(3 + 2) + 4 =$
$\boxed{5} + 4 = \underline{9}$

ⓒ $3 + (2 + 4) =$
$3 + \boxed{6} = \underline{9}$

ⓓ $3 + (4 + 2) =$
$3 + \boxed{6} = \underline{9}$

ⓔ $(3 + 4) + 2 =$
$\boxed{7} + 2 = \underline{9}$

ⓕ $(4 + 3) + 2 =$
$\boxed{7} + 2 = \underline{9}$

ⓖ $2 + (3 + 4) =$
$2 + \boxed{7} = \underline{9}$

ⓗ $2 + (4 + 3) =$
$2 + \boxed{7} = \underline{9}$

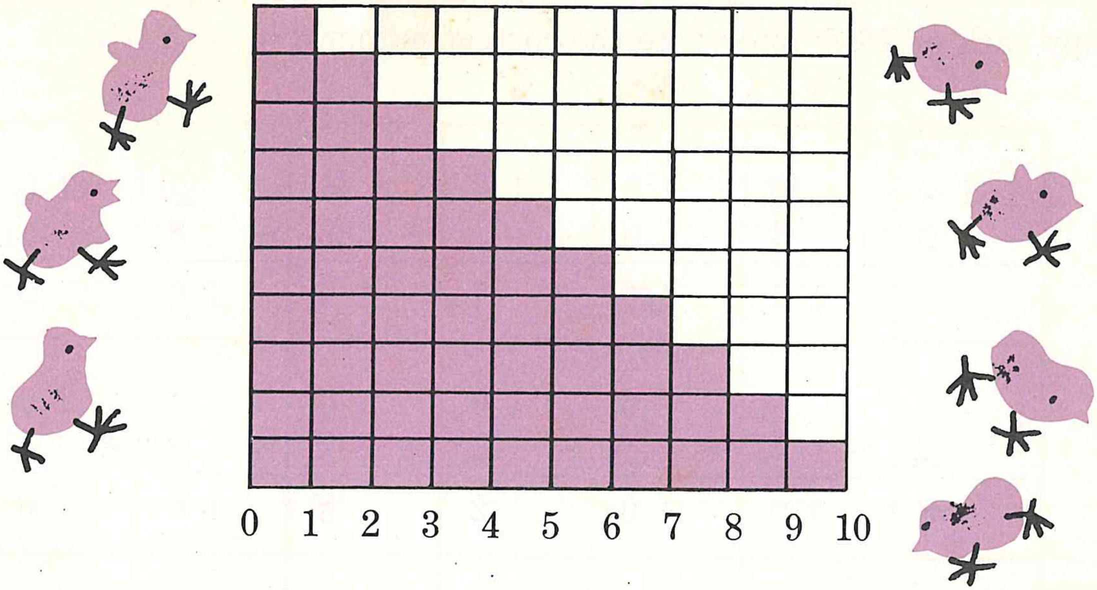
ⓘ $(2 + 4) + 3 =$
$\boxed{6} + 3 = \underline{9}$

ⓙ $(4 + 2) + 3 =$
$\boxed{6} + 3 = \underline{9}$

ⓚ $4 + (2 + 3) =$
$4 + \boxed{5} = \underline{9}$

ⓛ $4 + (3 + 2) =$
$4 + \boxed{5} = \underline{9}$

The commutative and associative properties of addition permit us to change the order and regroup the addends.



Copy and complete each equation.

① $9 + 1 = \boxed{10}$

② $5 + \boxed{5} = 10$

③ $2 + 8 = \boxed{10}$

④ $\boxed{10} + 0 = 10$

⑤ $4 + \boxed{6} = 10$

⑥ $7 + 3 = \boxed{10}$

⑦ $\boxed{0} + 10 = 10$

⑧ $10 = 8 + \boxed{2}$

⑨ $\boxed{10} = 3 + 7$

⑩ $10 = 6 + \boxed{4}$

⑪ $\boxed{10} = 5 + 5$

⑫ $10 = 0 + \boxed{10}$

⑬ $10 = \boxed{1} + 9$

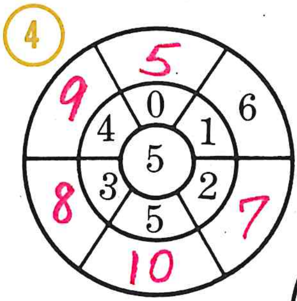
⑭ $\boxed{10} = 4 + 6$

Copy each problem and write the correct numeral in each □.

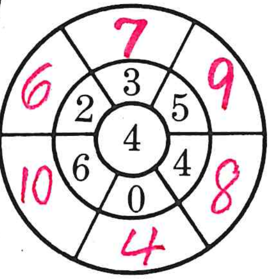
	A	B	C	D	E	F	G
①	$\begin{array}{r} 10 \\ - \boxed{5} \\ \hline 5 \end{array}$	$\begin{array}{r} \boxed{4} \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 0 \\ \hline \boxed{1}\boxed{0} \end{array}$	$\begin{array}{r} 10 \\ - \boxed{3} \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ + \boxed{5} \\ \hline 10 \end{array}$	$\begin{array}{r} \boxed{2} \\ + 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - \boxed{1} \\ \hline 9 \end{array}$
②	$\begin{array}{r} 10 \\ - \boxed{2} \\ \hline 8 \end{array}$	$\begin{array}{r} \boxed{7} \\ + 3 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ + \boxed{4} \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - \boxed{8} \\ \hline 2 \end{array}$	$\begin{array}{r} 10 \\ - 7 \\ \hline \boxed{3} \end{array}$	$\begin{array}{r} \boxed{1} \\ + 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - \boxed{4} \\ \hline 6 \end{array}$
③	$\begin{array}{r} \boxed{9} \\ + 1 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - \boxed{6} \\ \hline 4 \end{array}$	$\begin{array}{r} \boxed{8} \\ + 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - 10 \\ \hline \boxed{0} \end{array}$	$\begin{array}{r} \boxed{5} \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ + \boxed{3} \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ - \boxed{9} \\ \hline 1 \end{array}$

Addition Wheels

④

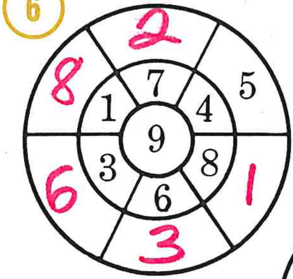


⑤

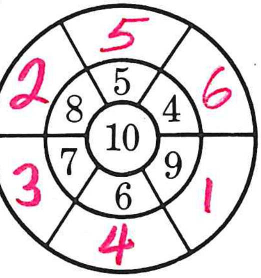


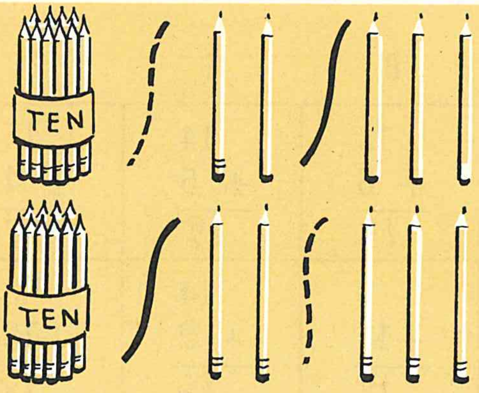
Subtraction Wheels

⑥



⑦





$12 + 3 = (10 + 2) + 3$

$= 10 + (2 + 3)$

$= 10 + \boxed{5}$

$=$ 15

Copy and complete each equation.

① $12 + 6 = 10 + \boxed{8} =$ 18

② $14 + 4 = 10 + \boxed{8} =$ 18

③ $12 + 7 = 10 + \boxed{9} =$ 19

④ $13 + 5 = 10 + \boxed{8} =$ 18

⑤ $11 + 6 = 10 + \boxed{7} =$ 17

⑥ $14 + 5 = 10 + \boxed{9} =$ 19

⑦ $13 + 6 = 10 + \boxed{9} =$ 19

⑧ $11 + 5 = 10 + \boxed{6} =$ 16

⑨ $12 + 4 = 10 + \boxed{6} =$ 16

⑩ $11 + 8 = 10 + \boxed{9} =$ 19

⑪ $12 + 5 = 10 + \boxed{7} =$ 17

⑫ $13 + 4 = 10 + \boxed{7} =$ 17

⑬ $11 + 7 = 10 + \boxed{8} =$ 18

⑭ $15 + 4 = 10 + \boxed{9} =$ 19

Find the sums.

	A	B	C	D	E	F
①	10 + 9 19	11 + 8 19	12 + 7 19	13 + 6 19	14 + 5 19	15 + 4 19
②	16 + 3 19	17 + 2 19	18 + 1 19	7 +11 18	14 + 2 16	5 +13 18
③	13 4 + 1 18	1 2 +15 18	6 10 + 3 19	11 4 + 2 17	1 12 + 3 16	4 5 +10 19

Copy each problem and write the correct numeral in each □.

	A	B	C	D	E	F
④	1 2 + $\boxed{6}$ 1 8	1 4 + 3 1 $\boxed{7}$	1 $\boxed{1}$ + 6 1 7	$\boxed{1}$ 3 + 5 1 8	1 5 + $\boxed{2}$ 1 7	1 $\boxed{7}$ + 2 1 9
⑤	1 4 + 5 1 $\boxed{9}$	1 8 + $\boxed{1}$ 1 9	1 $\boxed{3}$ + 6 1 9	1 1 + 5 1 $\boxed{6}$	1 $\boxed{4}$ + 4 1 8	1 3 + $\boxed{3}$ 1 6
⑥	1 3 + $\boxed{2}$ $\boxed{1}$ 5	1 $\boxed{2}$ + 7 $\boxed{1}$ 9	$\boxed{1}$ 1 + 4 1 $\boxed{5}$	1 5 + $\boxed{3}$ $\boxed{1}$ 8	1 $\boxed{7}$ + 1 $\boxed{1}$ 8	$\boxed{1}$ 2 + 5 1 $\boxed{7}$

Copy and complete each equation.

1a $12 + \boxed{6} = 18$

1b $18 - \boxed{6} = 12$

2a $14 + 5 = \boxed{19}$

2b $\boxed{19} - 5 = 14$

3a $\boxed{14} + 3 = 17$

3b $17 - 3 = \boxed{14}$

4a $13 + \boxed{6} = 19$

4b $19 - \boxed{6} = 13$

5a $13 + 3 = \boxed{16}$

5b $\boxed{16} - 3 = 13$

6a $\boxed{15} + 4 = 19$

6b $19 - 4 = \boxed{15}$

Find the sums and differences.

7a
$$\begin{array}{r} 12 \\ +\ 5 \\ \hline 17 \end{array}$$

7b
$$\begin{array}{r} 17 \\ -\ 5 \\ \hline 12 \end{array}$$

8a
$$\begin{array}{r} 12 \\ +\ 7 \\ \hline 19 \end{array}$$

8b
$$\begin{array}{r} 19 \\ -\ 7 \\ \hline 12 \end{array}$$

9a
$$\begin{array}{r} 19 \\ -\ 8 \\ \hline 11 \end{array}$$

9b
$$\begin{array}{r} 11 \\ +\ 8 \\ \hline 19 \end{array}$$

10a
$$\begin{array}{r} 15 \\ +\ 3 \\ \hline 18 \end{array}$$

10b
$$\begin{array}{r} 18 \\ -\ 3 \\ \hline 15 \end{array}$$

11a
$$\begin{array}{r} 14 \\ +\ 3 \\ \hline 17 \end{array}$$

11b
$$\begin{array}{r} 17 \\ -\ 3 \\ \hline 14 \end{array}$$

12a
$$\begin{array}{r} 19 \\ -\ 6 \\ \hline 13 \end{array}$$

12b
$$\begin{array}{r} 13 \\ +\ 6 \\ \hline 19 \end{array}$$

13a
$$\begin{array}{r} 14 \\ +\ 5 \\ \hline 19 \end{array}$$

13b
$$\begin{array}{r} 19 \\ -\ 5 \\ \hline 14 \end{array}$$

14a
$$\begin{array}{r} 12 \\ +\ 4 \\ \hline 16 \end{array}$$

14b
$$\begin{array}{r} 16 \\ -\ 4 \\ \hline 12 \end{array}$$

15a
$$\begin{array}{r} 18 \\ -\ 5 \\ \hline 13 \end{array}$$

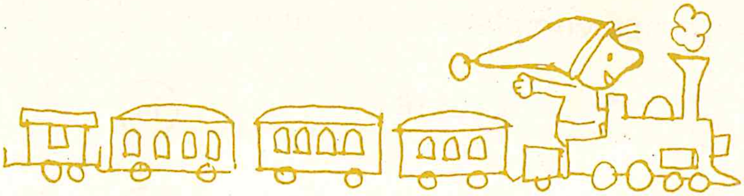
15b
$$\begin{array}{r} 13 \\ +\ 5 \\ \hline 18 \end{array}$$

Find the differences.

	A	B	C	D	E	F
①	17 − 2 15	16 − 4 12	19 − 8 11	19 − 5 14	17 − 5 12	17 − 3 14
②	18 − 6 12	19 − 4 15	18 − 2 16	16 − 3 13	19 − 7 12	18 − 5 13
③	15 − 3 12	17 − 4 13	18 − 7 11	19 − 6 13	18 − 4 14	16 − 5 11

Copy each problem and write the correct numeral in each □.

	A	B	C	D	E	F
④	18 $-\ \boxed{2}$ 16	$1\boxed{5}$ − 3 12	$\boxed{1}7$ − 4 13	$1\boxed{7}$ − 5 12	19 $-\ \boxed{6}$ 13	18 $-\ \boxed{7}$ 11
⑤	$1\boxed{9}$ − 3 16	18 $-\ \boxed{6}$ 12	$1\boxed{8}$ − 5 13	16 $-\ \boxed{3}$ 13	$1\boxed{9}$ − 2 17	$1\boxed{6}$ − 5 11
⑥	$\boxed{1}4$ − 2 $1\boxed{2}$	$\boxed{1}6$ $-\ \boxed{1}$ 15	$1\boxed{9}$ − 5 $\boxed{1}4$	$\boxed{1}8$ − 4 $1\boxed{4}$	$1\boxed{9}$ − 4 $\boxed{1}5$	$1\boxed{3}$ − 2 $\boxed{1}1$



Copy each problem and write the correct sign, + or −, in each △.

① $18 = 12 \overset{+}{\triangle} 6$

② $18 \overset{-}{\triangle} 6 = 12$

③ $(10 \overset{+}{\triangle} 2) + 1 = 13$

④ $(10 \overset{+}{\triangle} 2) - 1 = 11$

⑤ $15 \overset{-}{\triangle} 4 = 11$

⑥ $15 \overset{+}{\triangle} 4 = 19$

⑦ $17 = 10 \overset{+}{\triangle} (3 + 4)$

⑧ $10 + (4 \overset{+}{\triangle} 1) = 15$

⑨ $10 + (4 \overset{-}{\triangle} 1) = 13$

⑩ $13 = 10 \overset{+}{\triangle} (9 - 6)$

⑪ $10 \overset{+}{\triangle} (3 + 1) = 14$

⑫ $(10 \overset{+}{\triangle} 5) + 3 = 18$

⑬ $17 - 6 = 19 - (10 \overset{-}{\triangle} 2)$

⑭ $12 \overset{+}{\triangle} 4 = (10 + 3) + 3$

⑮ $14 - 3 = (10 \overset{+}{\triangle} 9) - 8$

⑯ $(10 \overset{+}{\triangle} 8) - 3 = 17 - 2$

⑰ $19 - (10 \overset{-}{\triangle} 3) = 14 - 2$

⑱ $11 \overset{+}{\triangle} (10 - 5) = 12 + 4$

⑲ $12 + 7 = (10 \overset{-}{\triangle} 5) + 14$

⑳ $6 + 13 = (10 + 7) \overset{+}{\triangle} 2$

㉑ $8 + 9 = 12 + (10 \overset{-}{\triangle} 5)$

㉒ $(10 \overset{+}{\triangle} 3) + 4 = 12 + 5$

㉓ $13 \overset{+}{\triangle} 5 = 9 + (10 \overset{-}{\triangle} 1)$

㉔ $14 \overset{+}{\triangle} 3 = (10 \overset{-}{\triangle} 7) + 8$

Copy and complete each equation.

① $12 + \boxed{4} = 16$

② $\boxed{14} - 3 = 11$

③ $4 + \boxed{13} = 17$

④ $14 + \boxed{3} = 17$

⑤ $\boxed{16} - 5 = 11$

⑥ $18 - \boxed{7} = 11$

⑦ $\boxed{5} + 12 = 17$

⑧ $\boxed{12} + 6 = 18$

⑨ $14 + \boxed{2} = 16$

⑩ $\boxed{19} - 7 = 12$

⑪ $15 + \boxed{4} = 19$

⑫ $17 - \boxed{3} = 14$

⑬ $\boxed{19} - 6 = 13$

⑭ $12 + 6 = 13 + \boxed{5}$

⑮ $10 + 5 = 19 - \boxed{4}$

⑯ $15 - \boxed{3} = 10 + 2$

⑰ $19 - \boxed{6} = 16 - 3$

⑱ $12 + 7 = \boxed{15} + 4$

⑲ $18 - 5 = 12 + \boxed{1}$

⑳ $\boxed{17} + 2 = 14 + 5$

㉑ $17 - \boxed{5} = 19 - 7$

㉒ $17 + 2 = \boxed{13} + 6$

㉓ $15 - \boxed{1} = 11 + 3$

㉔ $19 - 4 = 12 + \boxed{3}$

㉕ $\boxed{17} - 3 = 12 + 2$

㉖ $18 - 1 = \boxed{12} + 5$

Copy and complete each equation.

① $8 + 5 = 10 + \boxed{3} = \underline{13}$

② $7 + 4 = 10 + \boxed{1} = \underline{11}$

③ $9 + 3 = 10 + \boxed{2} = \underline{12}$

④ $6 + 6 = \boxed{10} + 2 = \underline{12}$

⑤ $5 + 9 = 10 + \boxed{4} = \underline{14}$

⑥ $6 + 8 = \boxed{10} + 4 = \underline{14}$

⑦ $9 + 4 = 10 + \boxed{3} = \underline{13}$

⑧ $5 + 7 = 10 + \boxed{2} = \underline{12}$

⑨ $4 + 8 = \boxed{10} + 2 = \underline{12}$

⑩ $8 + 9 = 10 + \boxed{7} = \underline{17}$

⑪ $9 + 7 = 10 + \boxed{6} = \underline{16}$

⑫ $6 + 9 = 10 + \boxed{5} = \underline{15}$

⑬ $4 + 7 = \boxed{10} + 1 = \underline{11}$

⑭ $9 + 5 = 10 + \boxed{4} = \underline{14}$

⑮ $8 + 6 = 10 + \boxed{4} = \underline{14}$

⑯ $5 + 8 = \boxed{10} + 3 = \underline{13}$

⑰ $6 + 7 = 10 + \boxed{3} = \underline{13}$

⑱ $7 + 9 = 10 + \boxed{6} = \underline{16}$

⑲ $8 + 4 = 10 + \boxed{2} = \underline{12}$

⑳ $6 + 5 = \boxed{10} + 1 = \underline{11}$

㉑ $7 + 6 = \boxed{10} + 3 = \underline{13}$

㉒ $8 + 3 = 10 + \boxed{1} = \underline{11}$

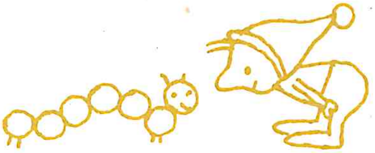
㉓ $7 + 7 = 10 + \boxed{4} = \underline{14}$

㉔ $9 + 2 = 10 + \boxed{1} = \underline{11}$

㉕ $7 + 8 = \boxed{10} + 5 = \underline{15}$

㉖ $8 + 8 = 10 + \boxed{6} = \underline{16}$

Copy and complete each equation.



① $9 + 5 = \boxed{14}$

② $7 + 8 = \boxed{15}$

③ $6 + 7 = \boxed{13}$

④ $4 + 8 = \boxed{12}$

⑤ $9 + 6 = \boxed{15}$

⑥ $7 + 3 = \boxed{10}$

⑦ $6 + 8 = \boxed{14}$

⑧ $4 + 7 = \boxed{11}$

⑨ $9 + 9 = \boxed{18}$

⑩ $1 + 9 = \boxed{10}$

⑪ $7 + 9 = \boxed{16}$

⑫ $4 + 6 = \boxed{10}$

⑬ $4 + 9 = \boxed{13}$

⑭ $9 + 3 = \boxed{12}$

⑮ $7 + 7 = \boxed{14}$

⑯ $9 + 8 = \boxed{17}$

⑰ $8 + 7 = \boxed{15}$

⑱ $5 + 5 = \boxed{10}$

⑲ $3 + 8 = \boxed{11}$

⑳ $2 + 9 = \boxed{11}$

㉑ $5 + 8 = \boxed{13}$

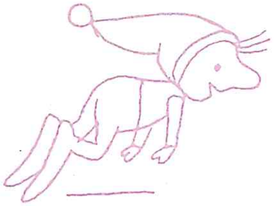
㉒ $6 + 5 = \boxed{11}$

㉓ $8 + 8 = \boxed{16}$

㉔ $7 + 5 = \boxed{12}$

Find the sums.

	A	B	C	D	E	F
①	8 + 7 15	6 + 9 15	4 + 9 13	6 + 6 12	5 + 6 11	7 + 5 12
②	8 + 4 12	9 + 7 16	8 + 3 11	5 + 5 10	7 + 4 11	3 + 9 12
③	7 + 7 14	6 + 7 13	9 + 8 17	4 + 7 11	3 + 8 11	6 + 8 14
④	2 + 9 11	7 + 3 10	2 + 8 10	9 + 6 15	4 + 8 12	5 + 8 13
⑤	9 + 3 12	6 + 4 10	9 + 5 14	8 + 9 17	9 + 4 13	5 + 7 12
⑥	6 + 5 11	8 + 8 16	7 + 8 15	8 + 6 14	8 + 5 13	7 + 6 13



Copy and complete each equation.

1a $6 + 7 = \boxed{13}$
1b $13 - 7 = \boxed{6}$

2a $7 + 8 = \boxed{15}$
2b $15 - 8 = \boxed{7}$

3a $2 + 9 = \boxed{11}$
3b $11 - 9 = \boxed{2}$

4a $9 + 8 = \boxed{17}$
4b $17 - 8 = \boxed{9}$

5a $3 + 7 = \boxed{10}$
5b $10 - 7 = \boxed{3}$

6a $5 + 8 = \boxed{13}$
6b $13 - 8 = \boxed{5}$

7a $9 + 3 = \boxed{12}$
7b $12 - 3 = \boxed{9}$

8a $4 + 9 = \boxed{13}$
8b $13 - 9 = \boxed{4}$

9a $8 + 8 = \boxed{16}$
9b $16 - 8 = \boxed{8}$

10a $5 + 6 = \boxed{11}$
10b $11 - 6 = \boxed{5}$

11a $8 + 6 = \boxed{14}$
11b $14 - 6 = \boxed{8}$

12a $7 + 9 = \boxed{16}$
12b $16 - 9 = \boxed{7}$

Find the sums and differences.

1a $\begin{array}{r} 6 \\ +\ 5 \\ \hline 11 \end{array}$	1b $\begin{array}{r} 11 \\ -\ 5 \\ \hline 6 \end{array}$	8a $\begin{array}{r} 9 \\ +\ 8 \\ \hline 17 \end{array}$	8b $\begin{array}{r} 17 \\ -\ 8 \\ \hline 9 \end{array}$	15a $\begin{array}{r} 7 \\ +\ 7 \\ \hline 14 \end{array}$	15b $\begin{array}{r} 14 \\ -\ 7 \\ \hline 7 \end{array}$
2a $\begin{array}{r} 7 \\ +\ 5 \\ \hline 12 \end{array}$	2b $\begin{array}{r} 12 \\ -\ 5 \\ \hline 7 \end{array}$	9a $\begin{array}{r} 5 \\ +\ 9 \\ \hline 14 \end{array}$	9b $\begin{array}{r} 14 \\ -\ 9 \\ \hline 5 \end{array}$	16a $\begin{array}{r} 9 \\ +\ 6 \\ \hline 15 \end{array}$	16b $\begin{array}{r} 15 \\ -\ 6 \\ \hline 9 \end{array}$
3a $\begin{array}{r} 8 \\ +\ 5 \\ \hline 13 \end{array}$	3b $\begin{array}{r} 13 \\ -\ 5 \\ \hline 8 \end{array}$	10a $\begin{array}{r} 6 \\ +\ 6 \\ \hline 12 \end{array}$	10b $\begin{array}{r} 12 \\ -\ 6 \\ \hline 6 \end{array}$	17a $\begin{array}{r} 7 \\ +\ 8 \\ \hline 15 \end{array}$	17b $\begin{array}{r} 15 \\ -\ 8 \\ \hline 7 \end{array}$
4a $\begin{array}{r} 6 \\ +\ 9 \\ \hline 15 \end{array}$	4b $\begin{array}{r} 15 \\ -\ 9 \\ \hline 6 \end{array}$	11a $\begin{array}{r} 9 \\ +\ 7 \\ \hline 16 \end{array}$	11b $\begin{array}{r} 16 \\ -\ 7 \\ \hline 9 \end{array}$	18a $\begin{array}{r} 3 \\ +\ 8 \\ \hline 11 \end{array}$	18b $\begin{array}{r} 11 \\ -\ 8 \\ \hline 3 \end{array}$
5a $\begin{array}{r} 8 \\ +\ 9 \\ \hline 17 \end{array}$	5b $\begin{array}{r} 17 \\ -\ 9 \\ \hline 8 \end{array}$	12a $\begin{array}{r} 7 \\ +\ 6 \\ \hline 13 \end{array}$	12b $\begin{array}{r} 13 \\ -\ 6 \\ \hline 7 \end{array}$	19a $\begin{array}{r} 4 \\ +\ 7 \\ \hline 11 \end{array}$	19b $\begin{array}{r} 11 \\ -\ 7 \\ \hline 4 \end{array}$
6a $\begin{array}{r} 6 \\ +\ 8 \\ \hline 14 \end{array}$	6b $\begin{array}{r} 14 \\ -\ 8 \\ \hline 6 \end{array}$	13a $\begin{array}{r} 8 \\ +\ 7 \\ \hline 15 \end{array}$	13b $\begin{array}{r} 15 \\ -\ 7 \\ \hline 8 \end{array}$	20a $\begin{array}{r} 8 \\ +\ 8 \\ \hline 16 \end{array}$	20b $\begin{array}{r} 16 \\ -\ 8 \\ \hline 8 \end{array}$
7a $\begin{array}{r} 8 \\ +\ 4 \\ \hline 12 \end{array}$	7b $\begin{array}{r} 12 \\ -\ 4 \\ \hline 8 \end{array}$	14a $\begin{array}{r} 3 \\ +\ 9 \\ \hline 12 \end{array}$	14b $\begin{array}{r} 12 \\ -\ 9 \\ \hline 3 \end{array}$	21a $\begin{array}{r} 9 \\ +\ 5 \\ \hline 14 \end{array}$	21b $\begin{array}{r} 14 \\ -\ 5 \\ \hline 9 \end{array}$

Find the differences.

① $12 - 4 = \boxed{8}$

② $15 - 7 = \boxed{8}$

③ $14 - 6 = \boxed{8}$

④ $16 - 7 = \boxed{9}$

⑤ $17 - 9 = \boxed{8}$

⑥ $13 - 4 = \boxed{9}$

⑦ $12 - 5 = \boxed{7}$

⑧ $14 - 7 = \boxed{7}$

⑨ $11 - 6 = \boxed{5}$

⑩ $18 - 9 = \boxed{9}$

⑪ $16 - 9 = \boxed{7}$

⑫ $15 - 6 = \boxed{9}$

⑬ $16 - 8 = \boxed{8}$

⑭ $14 - 5 = \boxed{9}$

⑮ $15 - 8 = \boxed{7}$

⑯ $13 - 5 = \boxed{8}$

⑰ $12 - 6 = \boxed{6}$

⑱ $11 - 7 = \boxed{4}$

⑲ $17 - 8 = \boxed{9}$

⑳ $12 - 7 = \boxed{5}$

㉑ $13 - 8 = \boxed{5}$

㉒ $15 - 9 = \boxed{6}$

㉓ $14 - 8 = \boxed{6}$

㉔ $13 - 6 = \boxed{7}$

Find the differences.

	A	B	C	D	E	F
①	15 − 9 6	12 − 3 9	17 − 8 9	13 − 6 7	15 − 6 9	14 − 9 5
②	13 − 4 9	16 − 8 8	15 − 7 8	11 − 3 8	17 − 9 8	12 − 9 3
③	16 − 9 7	14 − 6 8	15 − 6 9	12 − 7 5	11 − 8 3	13 − 5 8
④	16 − 7 9	11 − 5 6	15 − 8 7	11 − 2 9	12 − 4 8	14 − 7 7
⑤	11 − 7 4	13 − 7 6	11 − 4 7	12 − 5 7	14 − 8 6	14 − 5 9
⑥	14 − 9 5	12 − 8 4	13 − 9 4	13 − 8 5	11 − 2 9	16 − 7 9

N

Copy each problem and write the correct sign,
<, >, or =, in each ○.

① $9 + 7 = 7 + 9$

② $(11 - 1) - 2 > 11 - 9$

③ $4 + 8 < 7 + 6$

④ $8 + 9 = 9 + 8$

⑤ $(12 - 2) - 5 < 5 + 7$

⑥ $6 + 9 = 8 + 7$

⑦ $3 + (5 + 5) > 13 - 5$

⑧ $7 + 7 = 5 + 9$

⑨ $8 + 6 = 7 + 7$

⑩ $(13 - 3) - 7 = 9 - 6$

⑪ $(14 - 4) - 5 < 18 - 9$

⑫ $5 + 4 > 11 - 9$

⑬ $(17 - 7) + 3 > 7 + 3$

⑭ $5 + 6 > 17 - 8$

⑮ $(15 - 5) - 5 < 10 + 5$

⑯ $8 + 5 > 11 - 9$

⑰ $7 + 8 = 9 + 6$

⑱ $3 + (2 + 6) = 5 + 6$

⑲ $4 + 7 > 16 - 9$

⑳ $(8 + 2) + 5 > 4 + 9$

㉑ $18 - 9 = 4 + 5$

㉒ $9 + 2 > 17 - 8$

㉓ $(16 - 6) - 1 = 12 - 3$

㉔ $3 + 8 = 7 + 4$

㉕ $4 + (6 + 4) > 7 + 5$

㉖ $(3 + 7) + 3 = 6 + 7$

Copy each problem and write the correct numeral in each □.

	A	B	C	D	E
①	$\begin{array}{r} 7 \\ + \ \boxed{9} \\ \hline 16 \end{array}$	$\begin{array}{r} 15 \\ - \ \boxed{8} \\ \hline 7 \end{array}$	$\begin{array}{r} \boxed{6} \\ + \ 7 \\ \hline 13 \end{array}$	$\begin{array}{r} 5 \\ + \ \boxed{9} \\ \hline 14 \end{array}$	$\begin{array}{r} 17 \\ - \ \boxed{8} \\ \hline 9 \end{array}$
②	$\begin{array}{r} \boxed{1}\boxed{6} \\ - \ 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ + \ 6 \\ \hline \boxed{1}\boxed{5} \end{array}$	$\begin{array}{r} \boxed{7} \\ + \ 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 12 \\ - \ 3 \\ \hline \boxed{9} \end{array}$	$\begin{array}{r} 13 \\ - \ \boxed{9} \\ \hline 4 \end{array}$
③	$\begin{array}{r} 1\boxed{4} \\ - \ 6 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ + \ \boxed{6} \\ \hline 11 \end{array}$	$\begin{array}{r} 1\boxed{4} \\ - \ 5 \\ \hline 9 \end{array}$	$\begin{array}{r} \boxed{8} \\ + \ 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 1\boxed{1} \\ - \ 5 \\ \hline 6 \end{array}$
④	$\begin{array}{r} \boxed{8} \\ + \ 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 18 \\ - \ 9 \\ \hline \boxed{9} \end{array}$	$\begin{array}{r} 1\boxed{8} \\ - \ 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ + \ \boxed{7} \\ \hline 16 \end{array}$	$\begin{array}{r} \boxed{7} \\ + \ 8 \\ \hline 15 \end{array}$
⑤	$\begin{array}{r} 14 \\ - \ 8 \\ \hline \boxed{6} \end{array}$	$\begin{array}{r} 1\boxed{2} \\ - \ 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 11 \\ - \ 7 \\ \hline \boxed{4} \end{array}$	$\begin{array}{r} 8 \\ + \ \boxed{3} \\ \hline 11 \end{array}$	$\begin{array}{r} 13 \\ - \ 8 \\ \hline \boxed{5} \end{array}$

Copy each problem and write the correct sign, + or −, in each △.

① $7 \overset{+}{\triangle} 9 = 10 + 6$ (16)

② $14 \overset{-}{\triangle} 9 = 10 - 5$ (5)

③ $9 \overset{+}{\triangle} 4 = 16 - 3$ (13)

④ $7 + 7 = 6 \overset{+}{\triangle} 8$ (14)

⑤ $8 + 9 = (17 - 7) \overset{+}{\triangle} 7$ (17)

⑥ $(15 - 5) - 2 = 6 \overset{+}{\triangle} 2$ (8)

⑦ $8 \overset{+}{\triangle} 4 = 15 - 3$ (12)

⑧ $16 - 4 = 7 \overset{+}{\triangle} 5$ (12)

⑨ $8 + 5 = 17 \overset{-}{\triangle} 4$ (13)

⑩ $8 \overset{+}{\triangle} 5 = 14 - 1$ (13)

⑪ $(12 - 2) - 6 = 7 \overset{-}{\triangle} 3$ (4)

⑫ $8 + 8 = 18 \overset{-}{\triangle} 2$ (16)

⑬ $9 + 7 = 7 \overset{+}{\triangle} 9$ (16)

⑭ $(11 - 1) - 4 = 13 \overset{-}{\triangle} 7$ (6)

⑮ $12 \overset{-}{\triangle} 9 = 10 - 7$ (3)

⑯ $9 \overset{+}{\triangle} 5 = 8 + 6$ (14)

⑰ $13 - 8 = (14 - 4) \overset{-}{\triangle} 5$ (5)

⑱ $7 + 8 = 10 \overset{+}{\triangle} 5$ (15)

⑲ $15 - 7 = 5 \overset{+}{\triangle} 3$ (8)

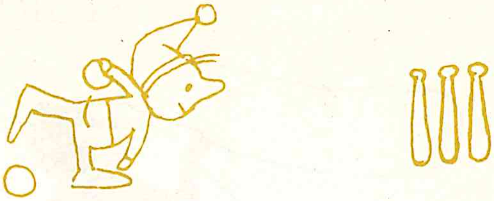
⑳ $7 + 6 = 9 \overset{+}{\triangle} 4$ (13)

㉑ $16 - 9 = 12 \overset{-}{\triangle} 5$ (7)

㉒ $14 \overset{-}{\triangle} 7 = 15 - 8$ (7)

㉓ $7 \overset{+}{\triangle} 5 = 14 - 2$ (12)

㉔ $(15 - 5) \overset{-}{\triangle} 8 = 11 - 9$ (2)



Find the sums and differences.

	A	B	C	D	E	F
①	9 + 6 15	13 − 4 9	14 − 6 8	15 − 7 8	8 + 2 10	7 + 5 12
②	13 − 6 7	11 − 8 3	8 + 4 12	8 + 8 16	4 + 9 13	17 − 8 9
③	6 + 8 14	7 + 6 13	16 − 9 7	8 + 9 17	17 − 9 8	7 + 9 16
④	8 + 6 14	16 − 7 9	14 − 8 6	12 − 6 6	15 − 9 6	8 + 5 13
⑤	5 + 7 12	8 + 7 15	13 − 8 5	9 + 5 14	12 − 7 5	7 + 7 14
⑥	9 + 7 16	3 + 8 11	12 − 6 6	6 + 9 15	9 + 4 13	11 − 7 4

STORY PROBLEMS

AT THE RODEO

Work the story problems.

1. The rodeo was about to begin. Riders got on the backs of 6 black horses and 7 white horses. These 13 horses would lead the parade around the ring.

2. From his seat in the grandstand, Peter saw 5 horses with silver saddles. Eleven other horses had brown leather saddles. 6 more horses had brown saddles than had silver saddles. (Note: "Six" can also be accepted as a word.)

3. When the parade was over, 8 steers ran into the ring. The gates opened again and 4 more steers joined the first set of steers. The cowboys would try to rope these 12 steers.

4. Polly held her breath as 3 of the steers were caught. Then the cowboys roped 4 more steers. Of the 12 steers in the ring, 5 of them were still running free.

Work the story problems.

1. Fifteen cowboys tried to ride wild horses. Nine cowboys were thrown from the saddle. 6 cowboys stayed in the saddle. (Note: "Six" can also be accepted as a word.)

2. Three of the stunt riders jumped their horses over gates. Eight of the riders had their horses trot and dance to music. The audience clapped for all 11 of these stunt riders.

3. Peter watched 7 of the cowboys twirl ropes. He saw 9 other cowboys twirl two ropes at once. Peter wished he could do the tricks that these 16 cowboys did.

4. Peter stopped to buy a cowboy belt. He looked at 17 belts with silver buckles and 9 belts with gold buckles. There were 8 more belts with silver buckles than there were with gold buckles.

THE LIGHTHOUSE KEEPER

Work the story problems.

1. The lighthouse keeper helped many boats find their way in from the sea. Yesterday 6 sailboats and 7 motorboats would have been lost without him. He had helped 13 boats.

2. The boats that sailed on the river blew their horns as they passed the lighthouse. Five big ships and 8 tugboats tooted today. 13 boats had called to the man in the lighthouse. (Note: "Thirteen" can also be accepted as a word.)

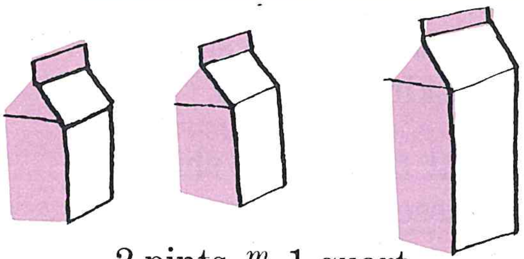
3. A barge went by carrying 12 piles of sand. Another barge had 5 piles. The lighthouse keeper wondered why the first barge had 7 more piles of sand than the second barge.

4. At night the houses along the edge of the river turned on their lights. On the east bank stood 9 houses. On the west bank stood 8 houses. The lighthouse keeper liked to see the lights shine from these 17 houses.

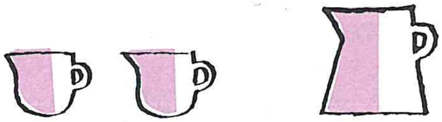
Work the story problems.

1. One night a great storm arose. The lighthouse keeper heard 8 ships call to him. Soon 7 more ships were calling. 15 ships were asking for help.
(Note: "Fifteen" can also be accepted as a word.)
2. A strong, bright beam reached out to lead the ships safely home. Nine of the ships passed slowly by on their way into the harbor. Soon 6 more ships passed by. 15 ships had come home safely. (Note: See the first story problem about the number fifteen.)
3. The lighthouse keeper watched 12 great bolts of lightning cross the black sky. Five of these bolts almost touched the lighthouse. The other 7 bolts stayed farther away.
4. The storm passed and morning came. Sixteen tugs started to work. Nine tugs rang bells to greet the lighthouse keeper. The other 7 tugs tooted their horns.

LIQUID MEASUREMENT



2 pints $\overset{m}{=}$ 1 quart



2 cups $\overset{m}{=}$ 1 pint

Copy each problem and write the correct numeral.

① 4 pints $\overset{m}{=}$ 2 quarts

② 6 quarts $\overset{m}{=}$ 12 pints

③ 2 pints $\overset{m}{=}$ 4 cups

④ 8 cups $\overset{m}{=}$ 4 pints

⑤ 4 cups $\overset{m}{=}$ 1 quarts

(In this answer, the "s" in quarts is not needed.)

⑥ 3 quarts $\overset{m}{=}$ 12 cups

⑦ 2 quarts $\overset{m}{=}$ 8 cups

⑧ 4 pints $\overset{m}{=}$ 2 quarts

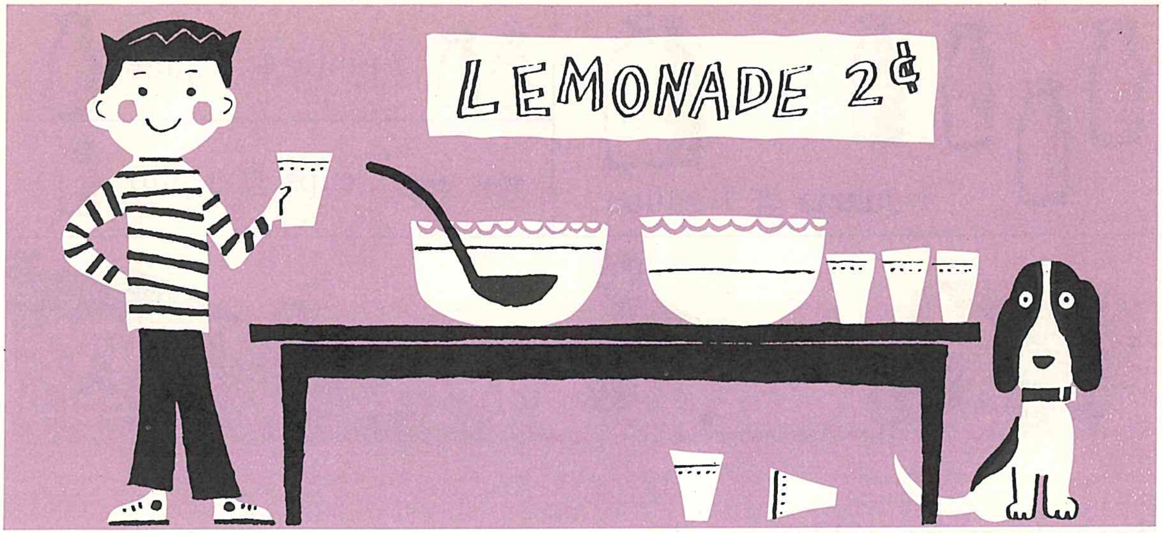
⑨ 4 cups $\overset{m}{=}$ 2 pints

⑩ 12 pints $\overset{m}{=}$ 3 quarts

⑪ 4 quarts $\overset{m}{=}$ 8 pints

⑫ 6 cups $\overset{m}{=}$ 3 pints

Two cups are not exactly the same as one pint.
Two cups measure the same amount of liquid as one pint.



Work the story problems.

1. Jimmy sold lemonade. He had 7 quarts of yellow lemonade and 6 pints of pink lemonade. He had 10 quarts of lemonade.

2. The first hour he sold 14 cups of pink lemonade and 12 cups of yellow. He sold 1 more pints of pink lemonade than yellow. (In this answer, the "s" in pints is not needed.)

3. Each cup of lemonade sold for 2¢. Jimmy had to sell 7 cups to make 14¢.

4. By lunch time Jimmy sold 10 pints of pink lemonade and 6 pints of yellow. Jimmy's total sales at this time were 8 cups.

5. By the end of the day Jimmy sold all of the 20 pints of lemonade he made. He sold 40 cups of lemonade.

4 quarts $\overset{m}{=}$ 1 gallon

2 pints $\overset{m}{=}$ 1 quart

2 cups $\overset{m}{=}$ 1 pint

Work the story problems.

1. The milkman delivered 2 gallons of milk to Mrs. White and 4 gallons to Mrs. Hill. Mrs. Hill took __8__ quarts more than Mrs. White.
2. The Wells family ordered 2 quarts of buttermilk. They will be able to serve __8__ cups of buttermilk with this order.
3. In his truck the milkman had 6 gallons of white milk and 32 quarts of chocolate milk. He has __2__ gallons more of __chocolate__ milk.
4. Mrs. Drew wanted enough milk to fill 8 cups. She needed to order __4__ pints of milk.
5. To make ice cream, Mrs. Bell needed 8 pints of cream. She told the milkman to leave __4__ quarts of cream at her house.

Four quarts is not exactly the same as one gallon.
Four quarts measures the same amount of liquid as one gallon.

Work the story problems.

Jane	3 quarts and 2 pints
Mary	7 pints
Betty	2 quarts and 2 pints
Susan	1 gallon
Patsy	4 quarts and 1 pint

Five girls made punch for a party. They wrote a list of the amount each brought to the party.

1. Jane brought 4 quarts of punch to the party.
2. Mary brought 14 cups of punch.
3. Betty brought 1 quarts less than Susan. (In this answer, the "s" in quarts is not needed.)
4. Susan brought the same number of quarts as Jane brought.
5. Patsy filled 18 cups with the punch she brought.
6. She filled 4 more cups than Mary did.
7. (Patsy) Betty needed 3 more pints to have the same amount of punch as Patsy.
8. Patsy brought the greatest amount of punch to the party.

2 quarts $\overset{m}{=}$ 1 half-gallon

2 half-gallons $\overset{m}{=}$ 1 gallon

Work the story problems.

1. Mr. Bird bought 10 gallons of gasoline for his car. He bought 4 half-gallons of gasoline for his power mower. Mr. Bird bought 8 gallons more for the car than for the power mower.
2. Mrs. Ball brought 8 half-gallon cans to the gas station. She wanted them filled with gasoline. The attendant put 4 gallons of gasoline in the cans.
3. The tank of Ben's motor scooter holds 5 gallons of gasoline. Ben had 12 half-gallon cans of gasoline on hand. He used 10 cans of gasoline to fill the tank.
4. Mr. Banks wanted 1 gallon of oil for the engine of his car. The oil came in quart cans. Mr. Banks bought 4 cans of oil.
5. The 4 trucks Mr. Buck owned needed motor oil. Each truck needed 8 quarts. Mr. Buck had to buy 8 half-gallons of oil for his trucks.

Two half-gallons are not exactly the same as one gallon.
Two half-gallons measure the same amount of liquid as one gallon.
Two quarts are not exactly the same as one half-gallon.
Two quarts measure the same amount of liquid as one half-gallon.

Note: All answers on this page are underlined in red.

2 cups $\overset{m}{=}$ 1 pint

2 pints $\overset{m}{=}$ 1 quart

2 quarts $\overset{m}{=}$ 1 half-gallon

4 quarts $\overset{m}{=}$ 1 gallon

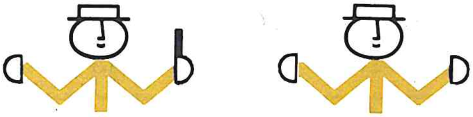
Which is the greater amount?			Which is the lesser amount?		
①	3 gallons	[✓ 13 quarts]	⑥	[✓ 8 cups]	4 quarts
②	6 cups	[✓ 5 pints]	⑦	12 half-gallons	[✓ 5 gallons]
③	[✓ 8 pints]	3 quarts	⑧	12 pints	[✓ 2 half-gallons]
④	[✓ 6 half-gallons]	10 quarts	⑨	8 quarts	[✓ 10 pints]
⑤	[✓ 7 pints]	12 cups	⑩	[✓ 15 pints]	2 gallons

Which is the correct amount in each row?

⑪	2 half-gallons	9 pints	5 quarts	[✓ 8 pints]
⑫	12 quarts	5 gallons	6 half-gallons	[✓ 4 gallons]
⑬	10 cups	6 pints	[✓ 5 pints]	5 quarts
⑭	4 gallons	[✓ 8 half-gallons]	12 quarts	[✓ 16 quarts]
⑮	6 pints	8 cups	[✓ 12 cups]	2 quarts

PLACE VALUE

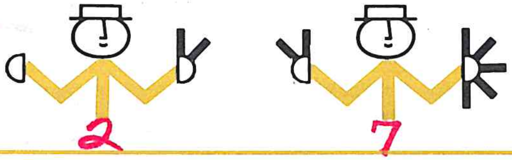
tens ones



1 ten and 0 ones
10

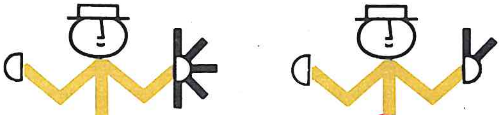
Write a numeral for each number shown by the Countingmen.

① tens ones



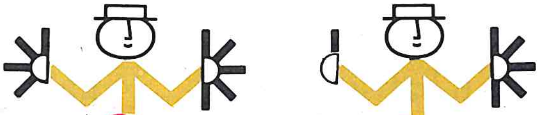
2 7

② tens ones



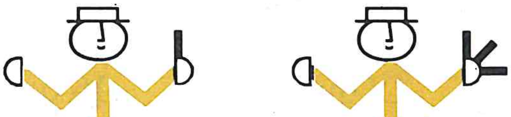
5 2

③ tens ones



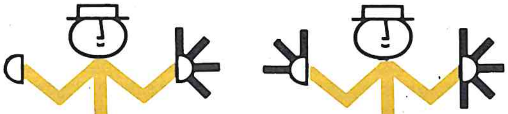
9 5

④ tens ones



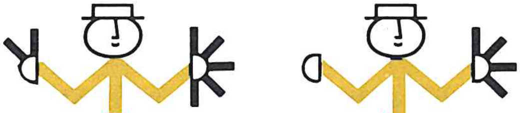
1 3

⑤ tens ones



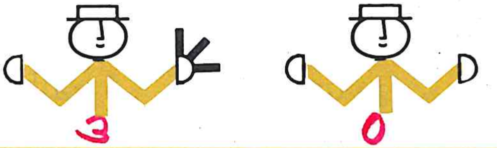
4 8

⑥ tens ones



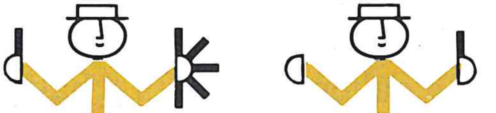
7 4

⑦ tens ones



3 0

⑧ tens ones



6 1

Countingmen help us think about the
place-value meaning of numerals.

Copy and write as indicated.

15 = 1 ten and 5 ones

① 86 = 8 tens and 6 ones

② 23 = 2 tens and 3 ones

③ 42 = 4 tens and 2 ones

④ 17 = 1 ten and 7 ones

⑤ 55 = 5 tens and 5 ones

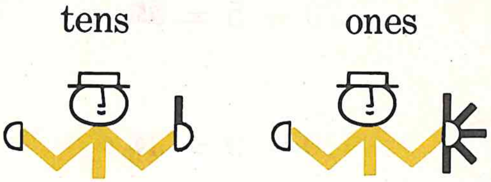
⑥ 94 = 9 tens and 4 ones

⑦ 78 = 7 tens and 8 ones

⑧ 39 = 3 tens and 9 ones

⑨ 60 = 6 tens and 0 ones

⑩ 81 = 8 tens and 1 one



1 ten and 5 ones
10 + 5
15

1 ten and 5 ones = 15

⑪ 3 tens and 5 ones = 35

⑫ 7 tens and 2 ones = 72

⑬ 1 ten and 8 ones = 18

⑭ 5 tens and 7 ones = 57

⑮ 9 tens and 1 one = 91

⑯ 6 tens and 6 ones = 66

⑰ 8 tens and 3 ones = 83

⑱ 2 tens and 0 ones = 20

⑲ 4 tens and 4 ones = 44

⑳ 5 tens and 9 ones = 59

Copy and write as indicated.

1 ten and 5 ones = 10 + 5
= 15

㉑ 6 tens and 7 ones = 60+7=67

㉒ 9 tens and 3 ones = 90+3=93

㉓ 4 tens and 5 ones = 40+5=45

㉔ 7 tens and 6 ones = 70+6=76

㉕ 3 tens and 2 ones = 30+2=32

㉖ 2 tens and 9 ones = 20+9=29

㉗ 8 tens and 8 ones = 80+8=88

㉘ 5 tens and 4 ones = 50+4=54

Expanded notation helps us think about the place-value meaning of numerals.

Copy and complete each equation.

① $20 + 5 = \boxed{25}$

② $10 + 9 = \boxed{19}$

③ $70 + 1 = \boxed{71}$

④ $40 + 6 = \boxed{46}$

⑤ $30 + 4 = \boxed{34}$

⑥ $90 + 2 = \boxed{92}$

⑦ $80 + \boxed{4} = 84$

⑧ $60 + \boxed{5} = 65$

⑨ $50 + \boxed{0} = 50$

⑩ $\boxed{60} + 3 = 63$

⑪ $\boxed{30} + 8 = 38$

⑫ $\boxed{70} + 7 = 77$

Use expanded notation to complete each equation.

⑬ 99 = 90 + 9

⑭ 47 = 40 + 7

⑮ 85 = 80 + 5

⑯ 14 = 10 + 4

⑰ 51 = 50 + 1

⑱ 22 = 20 + 2

⑲ 73 = 70 + 3

⑳ 36 = 30 + 6

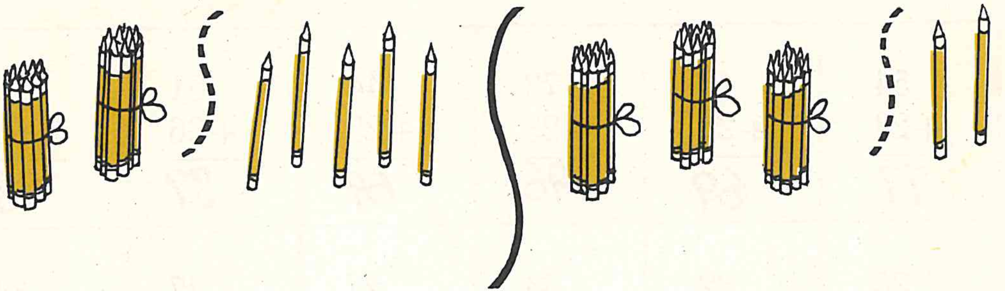
㉑ 68 = 60 + 8

㉒ 90 = 90 + 0

㉓ 49 = 40 + 9

㉔ 16 = 10 + 6

ADDITION AND SUBTRACTION



20 + 5
+ (30 + 2)
50 + 7 = ______

25
+32
57

Copy each problem and find the sums.

1a
50 + 4
+ (40 + 3)
90 + 7

1b
54
+43
97

2a
40 + 6
+ (20 + 3)
60 + 9

2b
46
+23
69

3a
20 + 2
+ (50 + 6)
70 + 8

3b
22
+56
78

4a
30 + 2
+ (20 + 3)
50 + 5

4b
32
+23
55

5a
60 + 7
+ (30 + 1)
90 + 8

5b
67
+31
98

6a
30 + 6
+ (50 + 1)
80 + 7

6b
36
+51
87

7a
20 + 4
+ (40 + 1)
60 + 5

7b
24
+41
65

8a
50 + 6
+ (30 + 2)
80 + 8

8b
56
+32
88

Find the sums.

	A	B	C	D	E	F
①	54 +23 77	43 +26 69	73 +23 96	44 +25 69	51 +36 87	12 +66 78
②	30 +29 59	82 +12 94	64 +23 87	27 +72 99	47 +50 97	34 +42 76
③	14 +74 88	32 +53 85	75 +14 89	16 +21 37	66 +32 98	40 +58 98
④	26 +12 38	56 +31 87	20 +57 77	23 +66 89	15 +81 96	44 +31 75
⑤	41 33 +14 88	22 16 +61 99	16 11 +52 79	10 81 + 5 96	31 5 +23 59	21 42 +32 95
⑥	51 4 20 +12 87	22 30 15 + 1 68	11 22 2 +50 85	40 2 41 +10 93	12 3 30 + 4 49	40 51 4 + 3 98

$$\begin{array}{r} 40 + 3 \\ + \; (50 + 5) \\ \hline \end{array} \qquad \begin{array}{r} 43 \\ +55 \\ \hline 98 \end{array}$$

$90 + 8 =$ ______

$$\begin{array}{r} 90 + 8 \\ - \; (50 + 5) \\ \hline \end{array} \qquad \begin{array}{r} 98 \\ -55 \\ \hline 43 \end{array}$$

$40 + 3 =$ ______

Find the differences.

① 1a
$$\begin{array}{r} 80 + 7 \\ - \; (20 + 4) \\ \hline 60 + 3 \end{array}$$

1b
$$\begin{array}{r} 87 \\ -24 \\ \hline 63 \end{array}$$

2a
$$\begin{array}{r} 70 + 6 \\ - \; (20 + 3) \\ \hline 50 + 3 \end{array}$$

2b
$$\begin{array}{r} 76 \\ -23 \\ \hline 53 \end{array}$$

3a
$$\begin{array}{r} 60 + 6 \\ - \; (50 + 2) \\ \hline 10 + 4 \end{array}$$

3b
$$\begin{array}{r} 66 \\ -52 \\ \hline 14 \end{array}$$

4a
$$\begin{array}{r} 90 + 5 \\ - \; (40 + 1) \\ \hline 50 + 4 \end{array}$$

4b
$$\begin{array}{r} 95 \\ -41 \\ \hline 54 \end{array}$$

5a
$$\begin{array}{r} 90 + 5 \\ - \; (20 + 2) \\ \hline 70 + 3 \end{array}$$

5b
$$\begin{array}{r} 95 \\ -22 \\ \hline 73 \end{array}$$

6a
$$\begin{array}{r} 80 + 5 \\ - \; (40 + 3) \\ \hline 40 + 2 \end{array}$$

6b
$$\begin{array}{r} 85 \\ -43 \\ \hline 42 \end{array}$$

7a
$$\begin{array}{r} 80 + 8 \\ - \; (30 + 7) \\ \hline 50 + 1 \end{array}$$

7b
$$\begin{array}{r} 88 \\ -37 \\ \hline 51 \end{array}$$

8a
$$\begin{array}{r} 60 + 9 \\ - \; (40 + 3) \\ \hline 20 + 6 \end{array}$$

8b
$$\begin{array}{r} 69 \\ -43 \\ \hline 26 \end{array}$$

Find the sums and differences.

	A	B	C	D	E	F
①	45 −24 21	12 +67 79	40 +18 58	27 −16 11	68 −53 15	54 +22 76
②	30 +62 92	71 +28 99	12 +34 56	21 +55 76	11 +75 86	63 −41 22
③	79 −46 33	50 +37 87	37 −25 12	88 −62 26	46 +41 87	94 −73 21
④	84 −51 33	97 −56 41	33 +52 85	59 −18 41	67 −33 34	18 +60 78
⑤	62 +22 84	98 −54 44	77 −50 27	21 +64 85	88 −75 13	91 −40 51
⑥	74 −20 54	54 +15 69	75 +14 89	59 −23 36	25 +72 97	56 −32 24

Copy each problem and write the correct sign, + or −, in each △.

① 37 △+ 12 = 49

② 37 △− 26 = 55 − 44

③ 8 + 21 = 30 △− 1

④ 64 △− 24 = 20 + 20

⑤ 88 = 77 △+ 11

⑥ 58 △− 32 = 13 + 13

⑦ 53 − 22 = 39 △− 8

⑧ 73 + 26 = 80 △+ 19

⑨ 49 △− 9 = 30 + 10

⑩ 58 △+ 11 = 9 + 60

⑪ 25 △+ 44 = 62 + 7

⑫ 70 + 8 = 75 △+ 3

Find the sums and differences.

	A	B	C	D	E	F
⑬	$\begin{array}{r}65\\+13\\\hline 78\end{array}$	$\begin{array}{r}86\\-16\\\hline 70\end{array}$	$\begin{array}{r}33\\-12\\\hline 21\end{array}$	$\begin{array}{r}84\\+12\\\hline 96\end{array}$	$\begin{array}{r}65\\-41\\\hline 24\end{array}$	$\begin{array}{r}79\\-36\\\hline 43\end{array}$
⑭	$\begin{array}{r}86\\-42\\\hline 44\end{array}$	$\begin{array}{r}42\\+17\\\hline 59\end{array}$	$\begin{array}{r}48\\-33\\\hline 15\end{array}$	$\begin{array}{r}27\\+62\\\hline 89\end{array}$	$\begin{array}{r}96\\-33\\\hline 63\end{array}$	$\begin{array}{r}42\\+35\\\hline 77\end{array}$
⑮	$\begin{array}{r}48\\-16\\\hline 32\end{array}$	$\begin{array}{r}87\\-27\\\hline 60\end{array}$	$\begin{array}{r}56\\+13\\\hline 69\end{array}$	$\begin{array}{r}75\\-53\\\hline 22\end{array}$	$\begin{array}{r}52\\-21\\\hline 31\end{array}$	$\begin{array}{r}32\\+24\\\hline 56\end{array}$

Copy each problem and write the correct sign, >, <, or =, in each ○.

① $72 + 26 > 80 + 10$

② $58 - 13 = 68 - 23$

③ $92 = 41 + 51$

④ $26 + 23 = 27 + 22$

⑤ $82 + 16 = 90 + 8$

⑥ $(20 + 10) + (10 + 10) < 50 + 10$

⑦ $13 + 66 < 88 + 11$

⑧ $78 - 42 < 46 - 5$

⑨ $(40 + 20) + 10 = 20 + (40 + 10)$

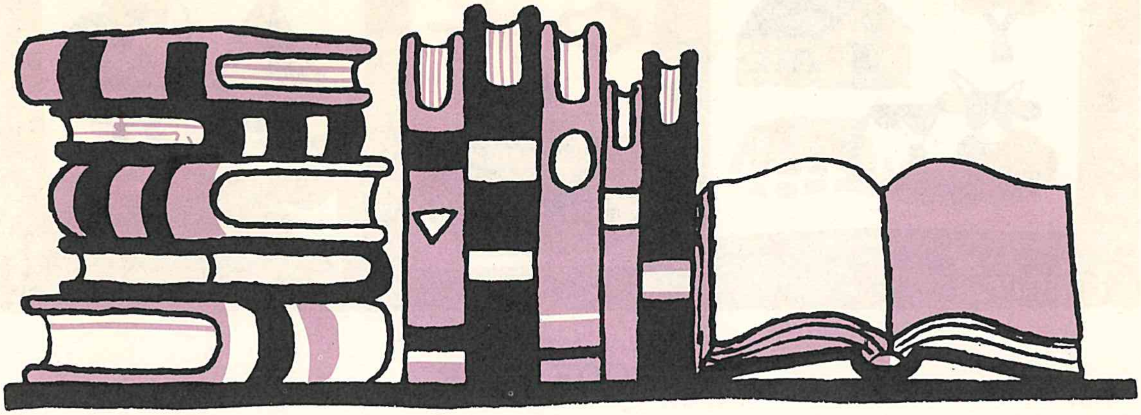
⑩ $69 - 55 > 26 - 14$

⑪ $(7 + 30) + 22 > (30 + 2) + 25$

⑫ $45 + 30 = 70 + 5$

⑬ $59 - 28 > 15 + 14$

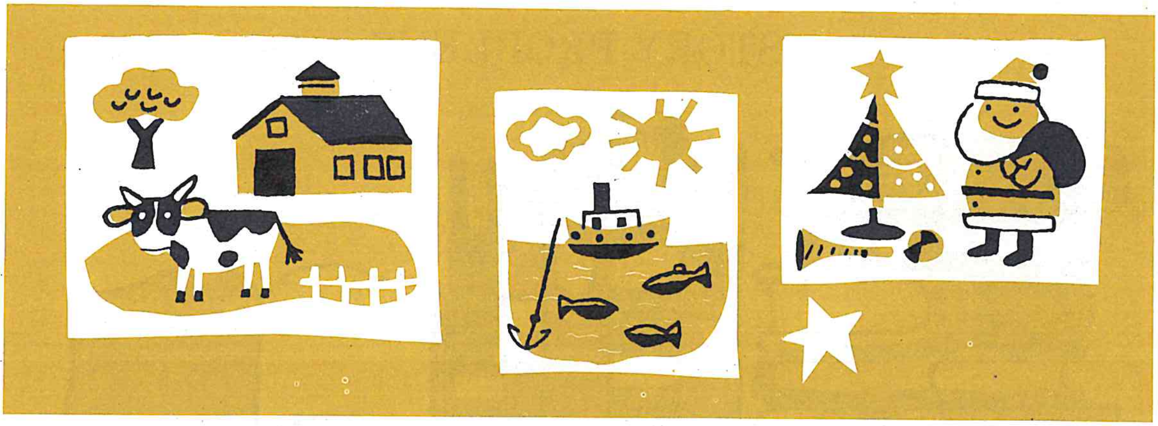
STORY PROBLEMS



THE BOOK CLUB

Work the story problems.

1. There are 28 children in the third grade class at Long School. Thirteen of the children are boys. There are 15 girls in the class.
2. One day the teacher brought some new books for the library corner. She placed 15 books on the table. She placed 34 more books on a shelf. The children could hardly wait to look over the 49 new books.
3. The children made charts to show how many books they had read. Bob's chart had 13 little paper books on it. Ann's chart had 27 books on it. Ann read 14 more books than Bob read.
4. The children decided to write a book of their own. The boys wrote 12 rocket stories and 31 sports stories. The girls wrote 24 animal stories and 20 stories about school. Their book held 87 stories.



A BOOK FAIR

Work the story problems.

1. The third graders planned a book fair. They made 58 pictures of storybook people and places. They painted 35 of the pictures and crayoned the other 23 pictures.

2. The children invited their fathers and mothers to come to the fair. On the big day 16 fathers and 23 mothers arrived. The children set up 39 chairs for their parents.

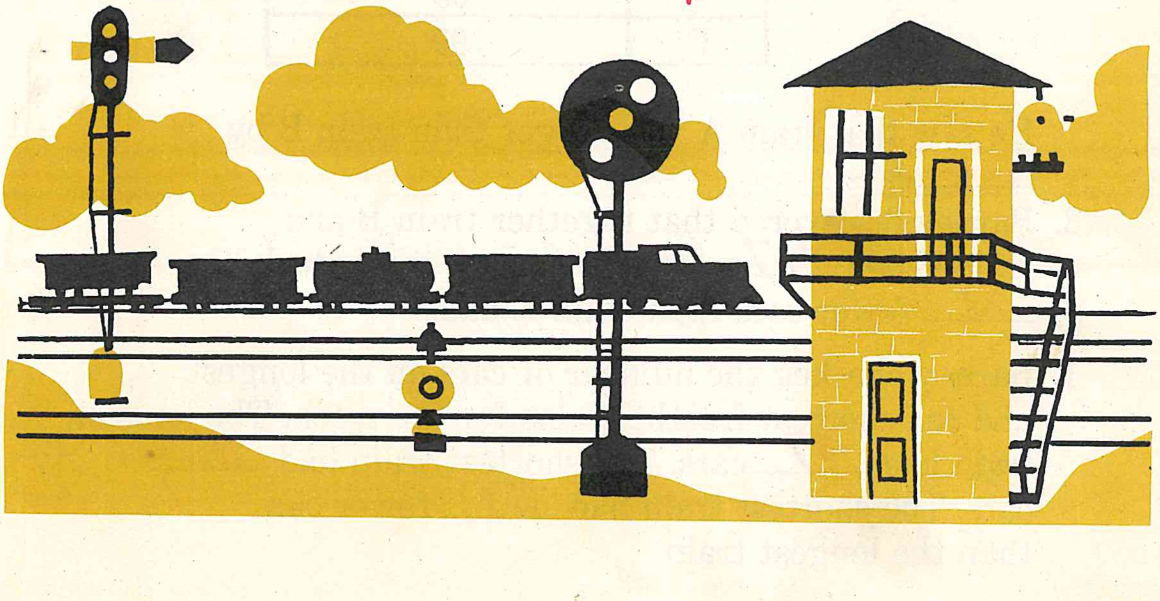
3. The boys and girls presented a fine program. Twelve of the children talked about their favorite books. The other 16 children gave a skit about school days long ago. All 28 children sang songs about storybook people.

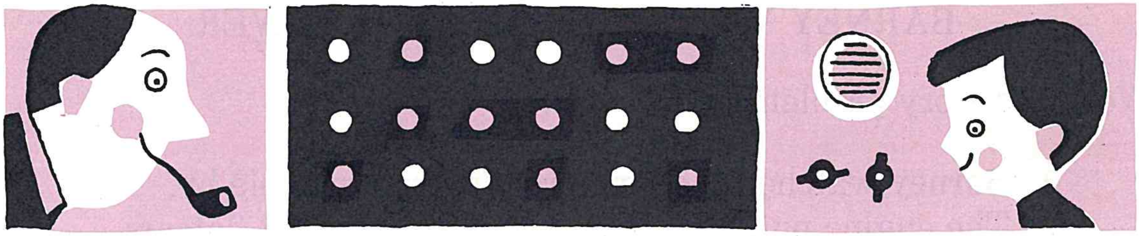
4. After the program the children served lemonade and cookies. Mary Lou, the cookie chairman, put 99 cookies on a large tray. After the party 16 cookies were left. 83 cookies had been eaten. (Note: "Eighty-three" can also be accepted as a word.)

BARNEY VISITS THE CONTROL TOWER

Work the story problems.

1. Barney watched the long freight train rumble by. The engine puffed as it pulled 53 boxcars, 22 flatcars, 13 gondolas, and a caboose. It was pulling 89 cars.
2. Barney counted the boxcars and the flatcars. He discovered that there were 31 more boxcars than flatcars.
3. From the other side of the city another train moved toward Barney. He watched its 11 tank cars, 25 flatcars, 42 boxcars, and caboose pass by. The engine pulled 79 cars.
4. Barney climbed up to the control tower. There he learned that 37 eastbound trains and 25 westbound trains had passed the tower during the week. 12 more trains had moved east than west.
(Note: "Twelve" can also be accepted as a word.)





Work the story problems.

1. Barney saw a board on which many lights blinked. As Barney watched, 13 red lights and 16 green lights flashed. Barney saw 29 lights flash.

2. On a wall chart there was a record of the trains which ran each day. Barney looked at the record for Monday.

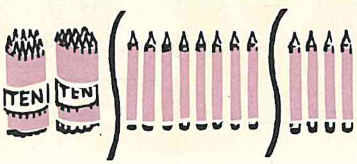
Train	Number of cars
A	49
B	15
C	32
D	54
E	68
F	99

He saw that train A was longer than train B by 34 cars.

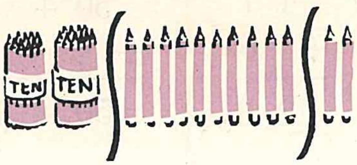
3. Barney discovered that together train B and train C had 47 cars. These two trains had 21 fewer cars than train E had.

4. Barney checked the number of cars on the longest and the shortest freight trains for the week. The longest train had 99 cars. The shortest train had 15 cars. The shortest train had 84 fewer cars than the longest train.

ADDITION AND SUBTRACTION



$$\begin{array}{r} 20 + 8 \\ + \quad 4 \\ \hline 20 + 12 \end{array}$$



20 + (10 + 2)
(20 + 10) + 2

30 + 2 = 32

Copy each problem and find the sums.

	A	B	C
①	30 + 3 + 7 30 + 10 = 40	50 + 2 + 9 50+11= 61	80 + 7 + 5 80+12=92
②	20 + 6 + 8 20+14=34	70 + 4 + 8 70+12=82	60 + 9 + 8 60+17=77
③	10 + 6 + 9 10+15=25	30 + 2 + 8 30+10=40	40 + 7 + 6 40+13=53
④	80 + 9 + 7 80+16=96	10 + 5 + 6 10+11=21	70 + 5 + 9 70+14=84

$$\begin{array}{r} 10 + 7 \\ + 6 \\ \hline 10 + 13 = \_\_\_ \end{array} \qquad \begin{array}{r} 1 \\ 1\,7 \\ + 6 \\ \hline 2\,3 \end{array} \qquad \begin{array}{r} 50 + 7 \\ + 3 \\ \hline 50 + 10 = \_\_\_ \end{array} \qquad \begin{array}{r} 1 \\ 5\,7 \\ + 3 \\ \hline 6\,0 \end{array}$$

Find the sums.

	A	B	C	D	E	F
①	22 + 8 30	87 + 6 93	68 + 4 72	61 + 9 70	39 + 5 44	16 + 5 21
②	58 + 9 67	47 + 5 52	76 + 6 82	19 + 6 25	53 + 8 61	88 + 7 95
③	27 + 4 31	69 + 4 73	54 + 8 62	38 + 5 43	76 + 8 84	48 + 8 56
④	54 + 7 61	37 + 7 44	24 + 6 30	85 + 8 93	46 + 7 53	65 + 7 72
⑤	29 + 7 36	18 + 6 24	77 + 8 85	29 + 9 38	56 + 9 65	43 + 9 52

$$\begin{array}{r} 30 + \ \ 9 \\ +(20 + \ \ 7) \\ \hline 50 + 16 = \_\_\_\_ \end{array} \qquad \begin{array}{r} 3\ 9 \\ +2\ 7 \\ \hline 6\ 6 \end{array} \qquad \begin{array}{r} 70 + \ \ 3 \\ +(10 + \ \ 7) \\ \hline 80 + 10 = \_\_\_\_ \end{array} \qquad \begin{array}{r} \overset{1}{7}\ 3 \\ +1\ 7 \\ \hline 9\ 0 \end{array}$$

Find the sums.

	A	B	C	D	E	F
①	28 +32 60	23 +59 82	36 +45 81	12 +69 81	55 +26 81	16 +59 75
②	31 +59 90	78 +13 91	67 +29 96	35 +37 72	54 +37 91	52 +18 70
③	27 +47 74	49 +49 98	17 +78 95	43 +28 71	66 +16 82	39 +23 62
④	38 +17 55	35 +48 83	25 +25 50	54 +19 73	44 +38 82	29 +62 91
⑤	57 +25 82	44 +26 70	16 +28 44	49 +11 60	18 +34 52	26 +17 43

$$\begin{array}{r} 30\\ 1\\ 10\\ +20\\ \hline 61 \end{array} \qquad \begin{array}{r} 1\\ 31\\ 5\\ 12\\ +23\\ \hline 71 \end{array} \qquad \begin{array}{r} 2\\ 36\\ 2\\ 15\\ +28\\ \hline 81 \end{array} \qquad \begin{array}{r} 3\\ 38\\ 5\\ 19\\ +29\\ \hline 91 \end{array}$$

Find the sums.

	A	B	C	D	E
①	37 40 +19 96	29 42 +19 90	53 6 +18 77	14 29 +48 91	5 74 +16 95
②	36 8 +55 99	9 37 +26 72	12 37 +35 84	9 63 + 8 80	50 29 +14 93
③	52 8 15 +15 90	16 40 3 +25 84	27 16 36 +10 89	33 19 22 +17 91	41 7 19 +28 95
④	28 7 18 +28 81	18 8 39 +14 79	5 47 14 +15 81	36 9 17 +28 90	16 17 18 +25 76

$$\begin{array}{rcr} 20 + 6 & = & 10 + 16 \\ - \quad 8 & = & - \quad\quad 8 \\ \hline & & 10 + 8 = \_\_\_ \end{array} \qquad \begin{array}{r} \overset{1}{\cancel{2}}\,{}^{1}6 \\ - \quad 8 \\ \hline 1\;8 \end{array}$$

Copy each problem, fill in the blanks, and find the differences.

①a $$\begin{array}{rcr} 50 + 2 & = & 40 + \underline{12} \\ - \quad 7 & = & - \quad\quad 7 \\ \hline \end{array}$$ 1b $$\begin{array}{r} 52 \\ - \ 7 \\ \hline 45 \end{array}$$

2a $$\begin{array}{rcr} 30 + 8 & = & \underline{20} + 18 \\ - \quad 9 & = & - \quad\quad 9 \\ \hline \end{array}$$ 2b $$\begin{array}{r} 38 \\ - \ 9 \\ \hline 29 \end{array}$$

3a $$\begin{array}{rcr} 70 + 5 & = & 60 + \underline{15} \\ - \quad 8 & = & - \quad\quad 8 \\ \hline \end{array}$$ 3b $$\begin{array}{r} 75 \\ - \ 8 \\ \hline 67 \end{array}$$

4a $$\begin{array}{rcr} 60 + 3 & = & \underline{50} + 13 \\ - \quad 6 & = & - \quad\quad 6 \\ \hline \end{array}$$ 4b $$\begin{array}{r} 63 \\ - \ 6 \\ \hline 57 \end{array}$$

5a $$\begin{array}{rcr} 90 + 1 & = & 80 + \underline{11} \\ - \quad 5 & = & - \quad\quad 5 \\ \hline \end{array}$$ 5b $$\begin{array}{r} 91 \\ - \ 5 \\ \hline 86 \end{array}$$

6a $$\begin{array}{rcr} 40 + 4 & = & 30 + \underline{14} \\ - \quad 8 & = & - \quad\quad 8 \\ \hline \end{array}$$ 6b $$\begin{array}{r} 44 \\ - \ 8 \\ \hline 36 \end{array}$$

7a $$\begin{array}{rcr} 80 + 6 & = & \underline{70} + 16 \\ - \quad 9 & = & - \quad\quad 9 \\ \hline \end{array}$$ 7b $$\begin{array}{r} 86 \\ - \ 9 \\ \hline 77 \end{array}$$

8a $$\begin{array}{rcr} 20 + 3 & = & 10 + \underline{13} \\ - \quad 4 & = & - \quad\quad 4 \\ \hline \end{array}$$ 8b $$\begin{array}{r} 23 \\ - \ 4 \\ \hline 19 \end{array}$$

$$\begin{array}{rcl} 70 + 0 & = & 60 + 10 \\ -(30 + 7) & = & -(30 + 7) \\ \hline & & 30 + 3 = \underline{\quad} \end{array}$$

$$\begin{array}{r} \overset{6}{\cancel{7}}\,\overset{1}{0} \\ -3\,7 \\ \hline 3\,3 \end{array}$$

Find the differences.

	A	B	C	D	E	F
①	90 −76 14	83 −24 59	36 − 7 29	51 −32 19	64 −39 25	28 − 9 19
②	94 −27 67	72 −43 29	95 −49 46	62 −24 38	87 −78 9	43 −16 27
③	71 −15 56	53 −18 35	92 −65 27	46 −39 7	80 −44 36	83 −59 24
④	63 −47 16	75 −27 48	73 −35 38	50 −28 22	94 −38 56	85 −38 47
⑤	34 −16 18	97 −59 38	61 −54 7	42 −26 16	76 −58 18	52 − 7 45

Find the differences.

	A	B	C	D	E	F
①	95 −27 68	81 −39 42	60 −55 5	57 −38 19	92 −37 55	44 −39 5
②	73 −59 14	64 −18 46	96 −59 37	80 −34 46	81 −22 59	75 −26 49
③	91 −17 74	55 −18 37	81 −18 63	66 −47 19	93 −75 18	41 −26 15
④	74 −37 37	82 −48 34	76 −18 58	90 −86 4	82 −69 13	54 −25 29
⑤	92 −46 46	62 −35 27	71 −64 7	37 −19 18	31 −23 8	88 −79 9
⑥	53 −48 5	45 −19 26	83 −56 27	61 −25 36	70 −48 22	94 −66 28

Find the sums and differences.

	A	B	C	D	E	F
①	54 +19 73	60 −26 34	47 −18 29	56 +38 94	22 +39 61	55 −17 38
②	98 −49 49	64 −48 16	39 +43 82	65 +16 81	73 −36 37	33 +58 91
③	19 +68 87	81 −57 24	62 −15 47	58 +27 85	56 −29 27	27 +25 52
④	36 −18 18	44 +38 82	77 +13 90	82 −28 54	44 +47 91	41 −24 17
⑤	36 +36 72	13 +59 72	93 −65 28	74 −46 28	28 +45 73	37 +26 63
⑥	66 −37 29	45 +27 72	68 +28 96	91 −58 33	50 −31 19	85 −46 39

Find the sums and differences.

	A	B	C	D	E	F
①	52 −14 38	25 +68 93	39 +57 96	71 −25 46	77 +17 94	85 −29 56
②	64 −27 37	26 +37 63	97 −69 28	54 +26 80	65 +29 94	84 −35 49
③	49 +38 87	53 −37 16	72 −39 33	17 +48 65	43 −28 15	56 +39 95
④	96 −57 39	80 −55 25	29 +24 53	94 −39 55	51 −26 25	33 +47 80
⑤	69 +15 84	65 −38 27	57 +19 76	48 +26 74	73 −49 24	42 −17 25
⑥	38 +34 72	19 +36 55	30 −18 12	90 −19 71	46 +15 61	29 +49 78

Copy each problem and write the correct numeral in each ☐.

	A	B	C	D	E
①	$\begin{array}{r} 36 \\ + \boxed{8} \\ \hline 44 \end{array}$	$\begin{array}{r} 58 \\ + \boxed{5} \\ \hline 63 \end{array}$	$\begin{array}{r} 17 \\ + \boxed{4}\boxed{9} \\ \hline 62 \end{array}$	$\begin{array}{r} 19 \\ + \boxed{3}\boxed{6} \\ \hline 55 \end{array}$	$\begin{array}{r} 26 \\ + \boxed{6}\boxed{7} \\ \hline 93 \end{array}$
②	$\begin{array}{r} \boxed{8}\boxed{8} \\ + 7 \\ \hline 95 \end{array}$	$\begin{array}{r} \boxed{6}\boxed{9} \\ + 2 \\ \hline 71 \end{array}$	$\begin{array}{r} \boxed{5}\boxed{8} \\ + 24 \\ \hline 82 \end{array}$	$\begin{array}{r} \boxed{4}\boxed{7} \\ + 18 \\ \hline 65 \end{array}$	$\begin{array}{r} \boxed{1}\boxed{9} \\ + 53 \\ \hline 72 \end{array}$
③	$\begin{array}{r} 2\boxed{5} \\ + 9 \\ \hline \boxed{3}4 \end{array}$	$\begin{array}{r} 7\boxed{3} \\ + 7 \\ \hline \boxed{8}0 \end{array}$	$\begin{array}{r} 2\boxed{7} \\ + 37 \\ \hline \boxed{6}4 \end{array}$	$\begin{array}{r} 3\boxed{7} \\ + 29 \\ \hline \boxed{6}6 \end{array}$	$\begin{array}{r} \boxed{5}5 \\ + 36 \\ \hline 9\boxed{1} \end{array}$
④	$\begin{array}{r} 7\boxed{4} \\ + \boxed{1}7 \\ \hline 91 \end{array}$	$\begin{array}{r} 1\boxed{4} \\ + \boxed{1}8 \\ \hline 32 \end{array}$	$\begin{array}{r} 3\boxed{3} \\ + \boxed{4}9 \\ \hline 82 \end{array}$	$\begin{array}{r} \boxed{6}1 \\ + 1\boxed{9} \\ \hline 80 \end{array}$	$\begin{array}{r} \boxed{4}5 \\ + 2\boxed{8} \\ \hline 73 \end{array}$
⑤	$\begin{array}{r} 28 \\ + \boxed{4}8 \\ \hline 7\boxed{6} \end{array}$	$\begin{array}{r} 47 \\ + 3\boxed{6} \\ \hline \boxed{8}3 \end{array}$	$\begin{array}{r} \boxed{3}6 \\ + 19 \\ \hline 5\boxed{5} \end{array}$	$\begin{array}{r} 25 \\ + \boxed{5}5 \\ \hline 8\boxed{0} \end{array}$	$\begin{array}{r} 59 \\ + 1\boxed{4} \\ \hline \boxed{7}3 \end{array}$

Copy each problem and write the correct numeral in each □.

	A	B	C	D	E
①	$\begin{array}{r} 76 \\ -\ \boxed{9} \\ \hline 67 \end{array}$	$\begin{array}{r} 93 \\ -\ \boxed{7} \\ \hline 86 \end{array}$	$\begin{array}{r} 42 \\ -\ \boxed{6} \\ \hline 36 \end{array}$	$\begin{array}{r} 55 \\ -\ \boxed{8} \\ \hline 47 \end{array}$	$\begin{array}{r} 82 \\ -\ \boxed{5} \\ \hline 77 \end{array}$
②	$\begin{array}{r} \boxed{9}\boxed{0} \\ -\ 5 \\ \hline 85 \end{array}$	$\begin{array}{r} \boxed{2}\boxed{1} \\ -\ 4 \\ \hline 17 \end{array}$	$\begin{array}{r} \boxed{3}\boxed{8} \\ -\ 9 \\ \hline 29 \end{array}$	$\begin{array}{r} \boxed{5}\boxed{2} \\ -\ 7 \\ \hline 45 \end{array}$	$\begin{array}{r} \boxed{6}\boxed{4} \\ -\ 8 \\ \hline 56 \end{array}$
③	$\begin{array}{r} 67 \\ -\ \boxed{1}\boxed{9} \\ \hline 48 \end{array}$	$\begin{array}{r} 93 \\ -\ \boxed{4}\boxed{9} \\ \hline 44 \end{array}$	$\begin{array}{r} 82 \\ -\ \boxed{5}\boxed{4} \\ \hline 28 \end{array}$	$\begin{array}{r} 55 \\ -\ \boxed{3}\boxed{9} \\ \hline 16 \end{array}$	$\begin{array}{r} 70 \\ -\ \boxed{1}\boxed{9} \\ \hline 51 \end{array}$
④	$\begin{array}{r} \boxed{6}\boxed{6} \\ -\ 28 \\ \hline 38 \end{array}$	$\begin{array}{r} \boxed{6}\boxed{4} \\ -\ 47 \\ \hline 17 \end{array}$	$\begin{array}{r} \boxed{7}\boxed{1} \\ -\ 56 \\ \hline 15 \end{array}$	$\begin{array}{r} \boxed{9}\boxed{2} \\ -\ 59 \\ \hline 33 \end{array}$	$\begin{array}{r} \boxed{4}\boxed{4} \\ -\ 15 \\ \hline 29 \end{array}$
⑤	$\begin{array}{r} \boxed{8}6 \\ -\ 4\boxed{7} \\ \hline 39 \end{array}$	$\begin{array}{r} \boxed{3}3 \\ -\ \boxed{8} \\ \hline 25 \end{array}$	$\begin{array}{r} 5\boxed{5} \\ -\ \boxed{2}7 \\ \hline 28 \end{array}$	$\begin{array}{r} 4\boxed{3} \\ -\ \boxed{2}4 \\ \hline 19 \end{array}$	$\begin{array}{r} 9\boxed{1} \\ -\ 49 \\ \hline \boxed{4}2 \end{array}$
⑥	$\begin{array}{r} 84 \\ -\ \boxed{2}9 \\ \hline 5\boxed{5} \end{array}$	$\begin{array}{r} \boxed{7}1 \\ -\ 45 \\ \hline 2\boxed{6} \end{array}$	$\begin{array}{r} 6\boxed{1} \\ -\ 38 \\ \hline \boxed{2}3 \end{array}$	$\begin{array}{r} 93 \\ -\ 2\boxed{5} \\ \hline \boxed{6}8 \end{array}$	$\begin{array}{r} \boxed{8}0 \\ -\ 3\boxed{1} \\ \hline 49 \end{array}$

STORY PROBLEMS

THE ART SHOW

Work the story problems.

1. The third grade class at Lake School planned to display their clay work. The boys made 27 pieces. The girls made 35 pieces. They had 62 clay pieces to display.

2. The children sorted the clay pieces. They had 22 clay animals, 17 bowls, and 5 vases. The rest of the pieces were clay storybook people. There were 18 clay storybook people.

3. The girls placed 17 of their 35 pieces on the top display shelf. They placed their other pieces on the lower shelf. The girls placed 18 pieces on the lower shelf.

4. The boys placed 14 of their clay pieces on the top shelf. 13(?) clay pieces were now on the top shelf.

5. The girls saw that 12 of the bowls, 16 of the clay animals, and 18 of the storybook figures were painted. 46 clay pieces were painted.

Work the story problems.

1. The class invited other children in the school to see their work. On Tuesday they sent notes to 39 first-grade children and 47 second-grade children. They sent 86 notes on this day.

2. On Wednesday they sent 24 notes, on Thursday 36 notes, and on Friday 35 notes. On these 3 days, they sent 95 notes.

3. In the first group that came to see the display, there were 72 children. In the second group, there were 57 children. There were 15 more children in the first group than in the second.

4. There were 34 girls and 18 boys in the third group that saw the clay work. In this group there were 16 more girls than boys.

5. The class kept a list of the children who visited their room. The names of 92 boys and 69 girls appeared on the list. There were 23 fewer girls' names than boys' names.

PIONEER DAYS

Work the story problems.

1. During their study of pioneer days, some of the girls in the third grade made a crazy quilt. Polly cut 38 pieces. Kathy cut 24 pieces. The two girls cut 62 pieces.

2. Many stitches went into the making of the quilt. Janet sewed 29 blocks. Susan sewed 19 more blocks than Janet. Susan made 48 blocks.

3. For the center block of the quilt, Nan cut and sewed 15 squares. Ann put together 26 squares. These two girls made 41 squares for the quilt.

4. When the quilt was finished, the many colors gave it a gay look. There were 71 red blocks and 32 yellow blocks in the quilt. There were 39 more red blocks than yellow blocks.

Work the story problems.

1. The boys built a model of a log cabin. Paul used 48 logs for the front of the cabin. Eddie used 34 logs for the back of the cabin. These two parts of the cabin took 82 logs.

2. The two sides of the cabin each took 27 logs. The boys had cut 73 logs. They had cut 46 more logs than they needed for the cabin's sides.

3. Jim took charge of laying the logs for the cabin floor. He used 39 logs from a pile of 56 logs. He left 17 logs on the pile.

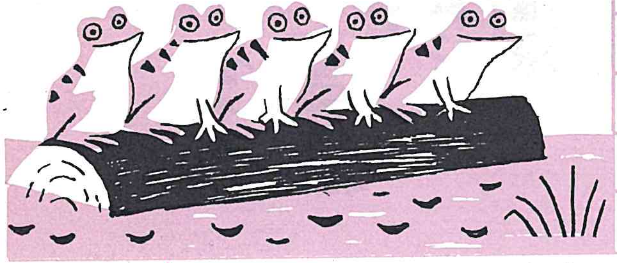
4. George knew that the chimney would take 54 stones. He had 18 stones. He needed 36 more stones to build the chimney.

LINEAR MEASUREMENT

12 inches $\overset{m}{=}$ 1 foot 36 inches $\overset{m}{=}$ 1 yard 3 feet $\overset{m}{=}$ 1 yard

Work the story problems.

Five boys planned a frog-jumping contest. Each boy picked his frog and measured how far it went when it took its first jump off the log.



	Distance jumped
Mike's frog	2 feet, 3 inches
Sam's frog	26 inches
Dick's frog	1 yard
Joe's frog	40 inches
John's frog	3 feet, 2 inches

1. Joe's frog jumped the farthest and won the contest.
2. Mike's frog went 1 inches farther than Sam's frog.
3. Dick's frog was 4 inches behind Joe's frog.
4. The difference between the farthest jump and the shortest jump was 14 inches.
5. If John's frog had jumped 2 inches farther he would have jumped as far as Joe's frog.
6. Mike's frog was 13 inches behind the winner of the contest.
7. John's frog jumped 1 foot farther than Sam's frog.
8. John's frog was second, Dick's frog was third, Mike's frog was fourth, and Sam's frog was last in the contest.

Twelve inches is not exactly the same as 1 foot.
Twelve inches measures the same amount of length as 1 foot.
Thirty-six inches or 3 feet are not exactly the same as 1 yard.
Thirty-six inches or 3 feet measure the same amount of length as 1 yard.

Can you match different measures for the same length?

- 1 foot, 8 inches
- 41 inches
- 6 inches less than 1 yard
- 2 feet, 3 inches
- 4 inches less than 1 yard

- 3 feet, 5 inches
- 2 feet, 8 inches
- 4 inches less than 2 feet
- 27 inches
- 2 feet NO MATCH
- 30 inches

- 1 foot, 1 inch
- 1 foot less than 1 yard
- 35 inches
- 1 inch less than 1 foot
- 4 feet

- 11 inches
- 13 inches
- 1 yard, 1 foot
- 36 inches NO MATCH
- 2 feet
- 1 inch less than 1 yard

Copy each problem and write the correct numerals.

	A	B
①	1 yard, 4 inches $\underline{\underline{m}}$ 40 inches	14 inches $\underline{\underline{m}}$ 1 feet, 2 inches
②	2 feet, 3 inches $\underline{\underline{m}}$ 27 inches	39 inches $\underline{\underline{m}}$ 1 yards, 3 inches
③	1 foot, 9 inches $\underline{\underline{m}}$ 21 inches	46 inches $\underline{\underline{m}}$ 1 yards, 10 inches
④	1 yard, 1 foot $\underline{\underline{m}}$ 48 inches	23 inches $\underline{\underline{m}}$ 1 feet, 11 inches
⑤	2 feet, 6 inches $\underline{\underline{m}}$ 30 inches	37 inches $\underline{\underline{m}}$ 3 feet, 1 inches
⑥	2 yards $\underline{\underline{m}}$ 72 inches	11 inches $\underline{\underline{m}}$ 0 feet, 11 inches
⑦	2 feet, 9 inches $\underline{\underline{m}}$ 33 inches	45 inches $\underline{\underline{m}}$ 3 feet, 9 inches
⑧	1 yard, 1 inch $\underline{\underline{m}}$ 37 inches	36 inches $\underline{\underline{m}}$ 1 yards, 0 feet
⑨	3 feet, 11 inches $\underline{\underline{m}}$ 47 inches	35 inches $\underline{\underline{m}}$ 0 yards, 35 inches
⑩	1 foot, 8 inches $\underline{\underline{m}}$ 20 inches	48 inches $\underline{\underline{m}}$ 1 yards, 1 feet

Three boys went fishing. Each boy caught 4 fish. The boys measured each of the fish by inches.

	Tom's Fish	Jim's Fish	Bob's Fish
trout	13 inches	17 inches	15 inches
pike	26 inches	14 inches	24 inches
eel	39 inches	42 inches	35 inches
muskie	70 inches	60 inches	73 inches

Work the story problems.

1. Jim caught the trout that has the greatest length. It is 1 feet, 5 inches long.
2. The pike Jim caught is 1 feet shorter than the one Tom caught.
3. Bob caught the eel that measures 1 inch less than 1 yard. It measures 2 feet, 11 inches.
4. The muskie caught by Jim measures 1 feet, 1 inches less than the one caught by Bob.
5. The fish that has the greatest length is a muskie. It is Bob's fish. It measures 6 feet, 1 inches.
6. The fish that is 2 feet long is a pike caught by Bob.
7. The total length of the trout and the pike Tom caught is 3 inches more than 1 yard.
8. The total length of the pike and the eel Jim caught is 20 inches more than 1 yard.

Copy each problem and write the correct numeral.

① 1 yard, 2 feet, 3 inches $\overset{m}{=}$ 63 inches

② 0 yards, 3 feet, 4 inches $\overset{m}{=}$ 40 inches

③ 2 yards, 1 foot, 1 inch $\overset{m}{=}$ 85 inches

④ 3 yards, 1 foot, 5 inches $\overset{m}{=}$ 125 inches

⑤ 1 yard, 2 feet, 10 inches $\overset{m}{=}$ 70 inches

⑥ 2 yards, 0 feet, 9 inches $\overset{m}{=}$ 81 inches

⑦ 0 yards, 2 feet, 8 inches $\overset{m}{=}$ 32 inches

⑧ 2 yards, 1 foot, 11 inches $\overset{m}{=}$ 95 inches

⑨ 3 yards, 2 feet, 0 inches $\overset{m}{=}$ 132 inches

⑩ 1 yard, 1 foot, 8 inches $\overset{m}{=}$ 56 inches

Which is the greater length?

11	1 yard	[✓ 39 inches]
12	1 foot	[✓ 13 inches]
13	[✓ 3 yards]	6 feet
14	[✓ 12 feet]	1 inch
15	[✓ 63 inches]	1 yard
16	[✓ 4 feet]	24 inches
17	11 inches	[✓ 1 foot]
18	[✓ 2 yards]	24 inches
19	36 inches	[✓ 3 yards]
20	[✓ 3 yards]	1 foot
21	14 inches	[✓ 2 feet]

Which is the lesser length?

22	[✓ 9 inches]	3 yards
23	27 inches	[✓ 2 feet]
24	[✓ 1 foot]	14 inches
25	18 inches	[✓ 1 yard]
26	[✓ 36 inches]	2 yards
27	60 inches	[✓ 1 yard]
28	7 feet	[✓ 2 yards]
29	16 inches	[✓ 1 foot]
30	[✓ 2 yards]	9 feet
31	[✓ 35 inches]	3 feet
32	[✓ 70 inches]	2 yards

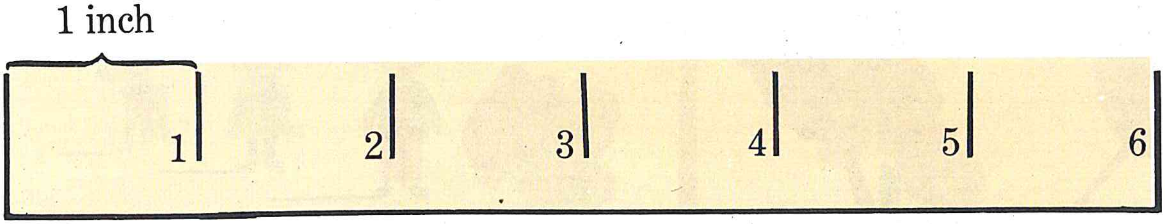
Work the story problems.

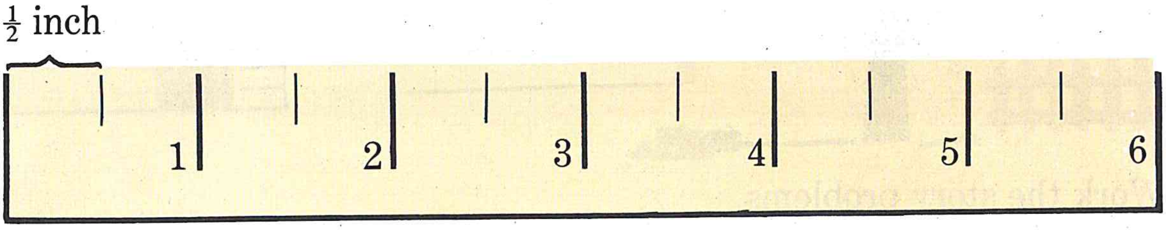
1. Ann and Nancy set up a puppet show. They bought four yards or __12__ feet of cloth for the stage drapes.
2. Nancy needed three pieces of cloth, each measuring 1 foot and 3 inches long, for the puppets. She needed __1__ yards and __9__ inches of material.
3. Ann cut 1 yard and 2 feet of cord for each puppet's strings. For three of the puppets Ann cut __5__ yards of cord.
4. The girls bought 6 yards of wood for sticks on which to hang the puppets. If each puppet took 2 feet of the wood, the girls cut __9__ sticks from this long piece of wood.
5. When the show was ready to begin, the girls placed the 6-foot stage on a table that measured 4 yards in length. The table was __6__ feet longer than the stage.

Work the story problems.

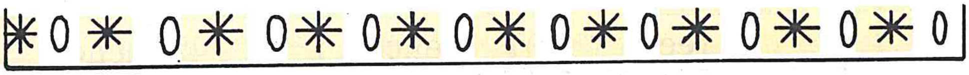
Object	Length of Shadow	Object	Length of Shadow
boy	52 inches	dog house	5 feet
bush	8 feet	fence	49 inches
clothes pole	10 feet	girl	1 yard, 1 foot
dog	23 inches	tree	15 feet

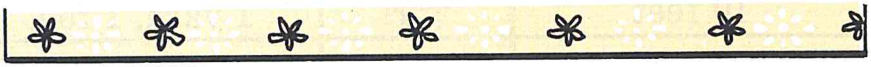
1. The boy's shadow is __2__ feet and __5__ inches longer than the dog's shadow.
2. The shadow of the clothes pole is __1__ yards and __2__ feet shorter than that of the tree.
3. The shortest shadow is __1__ feet and __11__ inches in length.
4. When the shadow of the fence was measured later in the day, it had grown 23 inches. The fence's new shadow was then __2__ yards long.
5. The difference between the boy's shadow and the girl's shadow is __4__ inches.
6. The shadow cast by the doghouse is __3__ feet and __1__ inches longer than the dog's shadow.

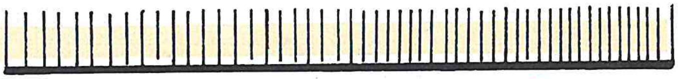


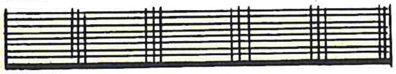


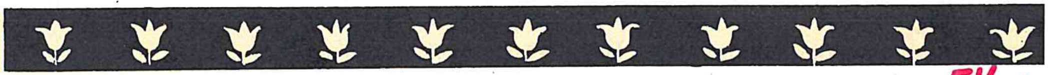
Measure the number of inches in each ribbon.

1  5 inches

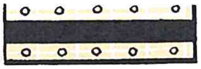
2  4½ inches

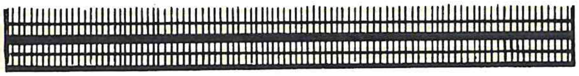
3  3½ inches

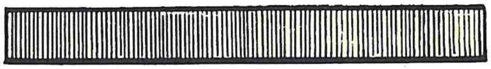
4  2 inches

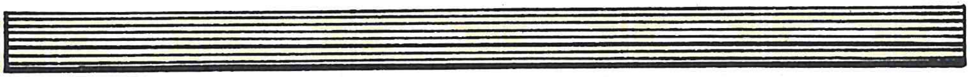
5  5½ inches

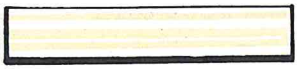
6 4 inches

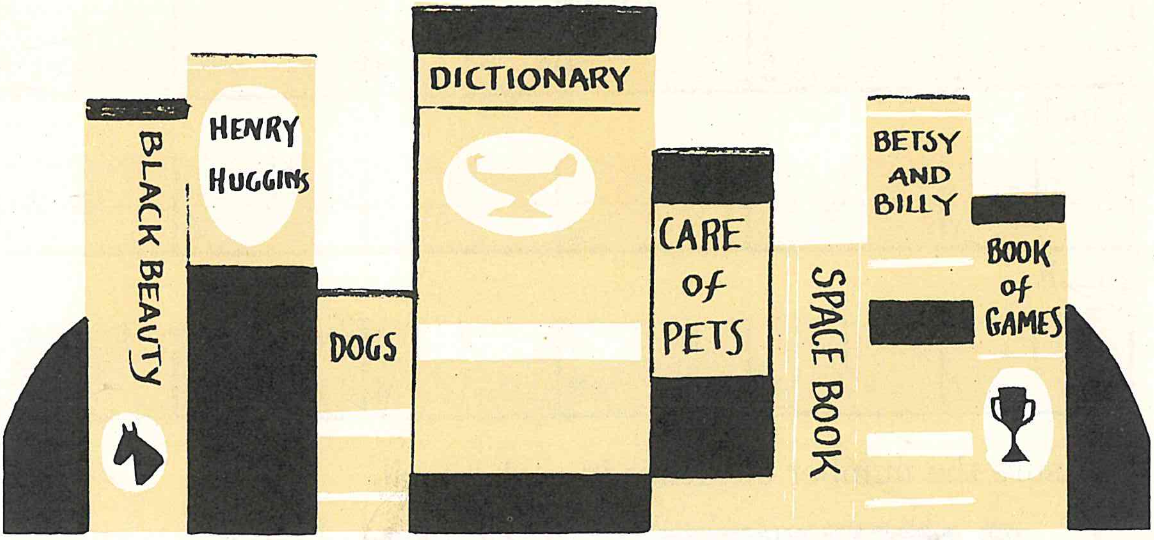
7  1 inch

8  3 inches

9  2½ inches

10  5 inches

11  1½ inches



Use your ruler to measure the books, then work the problems.

1. Dictionary is the tallest book on the bookshelf.
It measures 2 3/4 inches from top to bottom.

2. The book *Henry Huggins* is 2 1/2 inches tall.

3. The book of games is 1 3/4 inches tall and 1/2 inches wide.

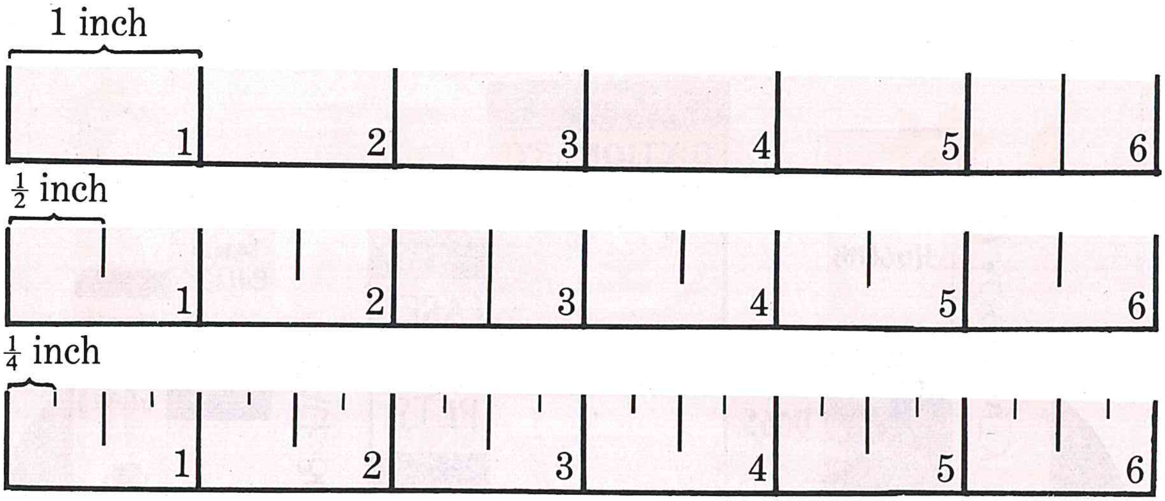
4. The widest book on the bookshelf is dictionary.
It measures 1 1/4 inches.

5. The book about pets is 1/2 inches taller than the space book.

6. Two books which are the same height are Black Beauty and Betsy and Billy. They are each 2 1/4 inches tall.

7. The shortest book tells about dogs. It measures 1 1/4 inches tall and 1/2 inches wide.

8. The difference between the tallest book and the shortest book is 1 1/2 inches.



Measure the number of inches in each pencil.

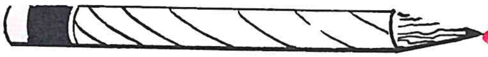
1 2¼ inches

2 3 inches

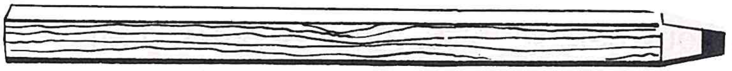
3 4¼ inches

4 2 inches

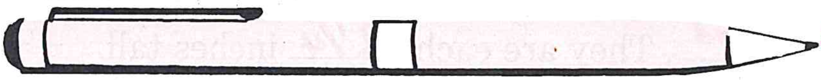
5 4 inches

6  2½ inches

7 3¼ inches

8  3¾ inches

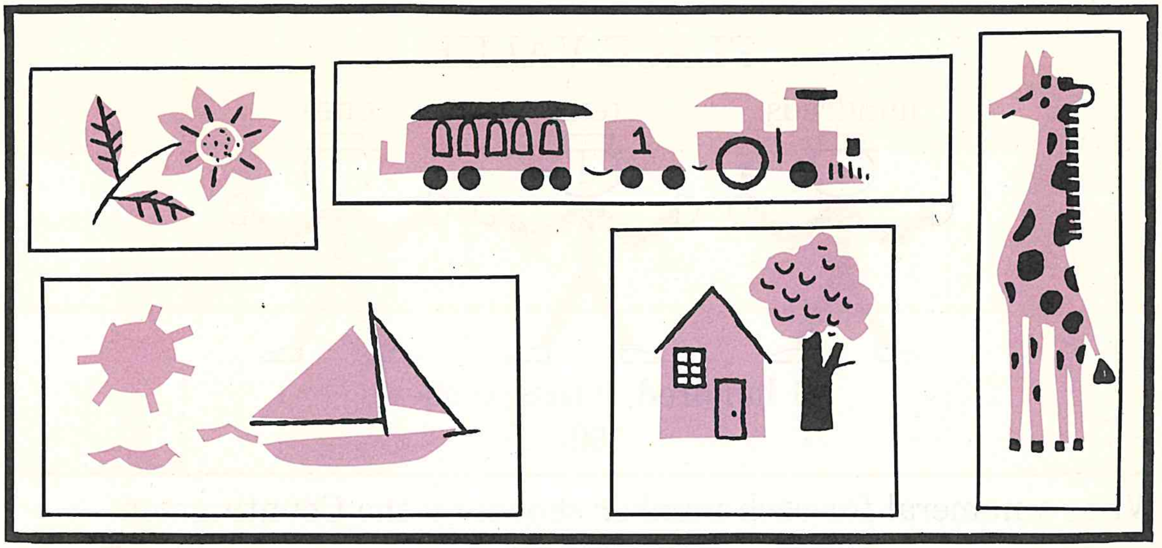
9 4½ inches

10  4¼ inches

11 5¼ inches

12 3½ inches

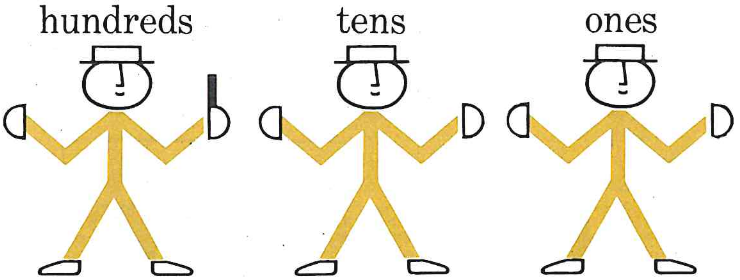
13 1¾ inches



Use your ruler to measure the pictures, then work the problems.

1. The picture board measures 6 inches from left to right and 2 3/4 inches from top to bottom.
2. The picture of the sailboat measures 1 1/4 inches from top to bottom.
3. The picture that has the greatest length from top to bottom is the giraffe. It measures 2 1/2 inches.
4. The picture of the flower measures 1 1/2 inches from left to right.
5. The picture that has the greatest length from left to right is the train. It measures 3 1/4 inches.
6. The picture that measures the same on each of its four sides is the house. Each side measures 1 1/2 inches.
7. The picture of the flower measures 1 inch from top to bottom.
8. The picture of the giraffe measures $2\frac{1}{2}$ inches from left to right.

PLACE VALUE

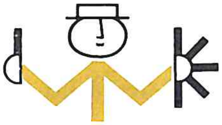


1 hundred, 0 tens, 0 ones
100

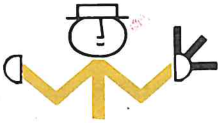
Write a numeral for each number shown by the Countingmen.

①

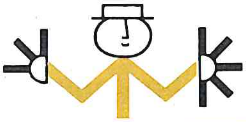
hundreds 6



tens 3

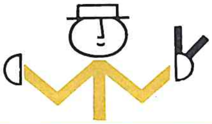


ones 8

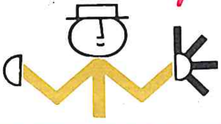


②

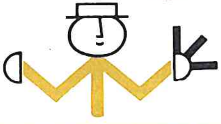
hundreds 2



tens 4

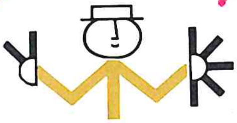


ones 3

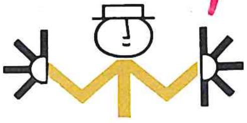


③

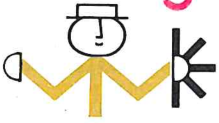
hundreds 7



tens 9

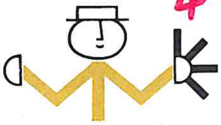


ones 5

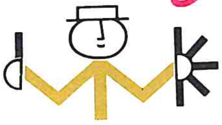


④

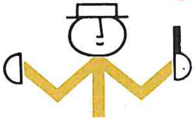
hundreds 4



tens 6

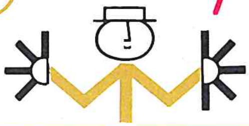


ones 1

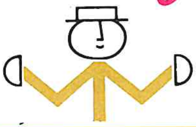


⑤

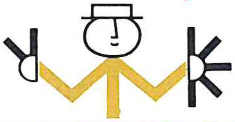
hundreds 9



tens 0

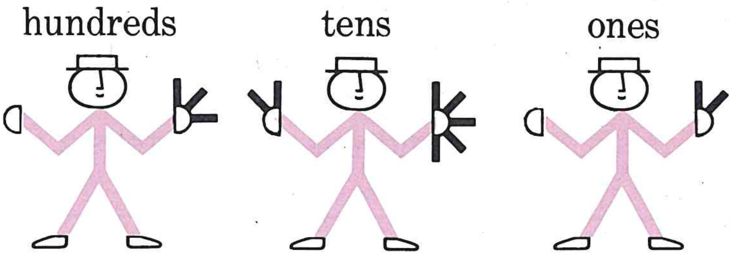


ones 7



Copy each problem and fill the blanks.

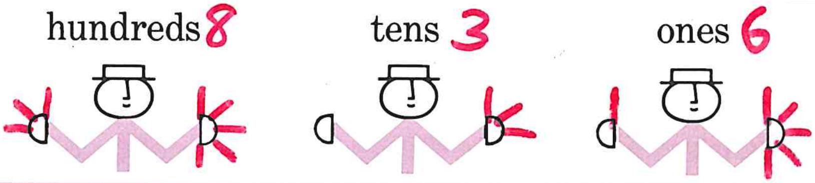
①	429	4 hundreds, 2 tens, 9 ones
②	751	7 hundreds, 5 tens, 1 ones
③	286	2 hundreds, 8 tens, 6 ones
④	543	5 hundreds, 4 tens, 3 ones
⑤	935	9 hundreds, 3 tens, 5 ones
⑥	674	6 hundreds, 7 tens, 4 ones
⑦	160	1 hundreds, 6 tens, 0 ones
⑧	807	8 hundreds, 0 tens, 7 ones
⑨	398	3 hundreds, 9 tens, 8 ones
⑩	512	5 hundreds, 1 tens, 2 ones



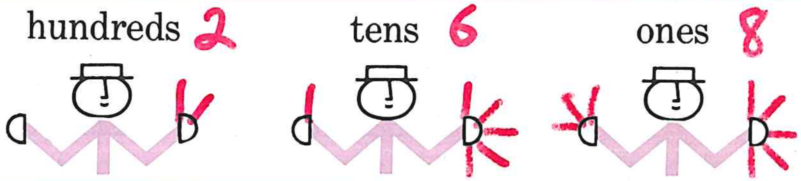
3 hundreds, 7 tens, 2 ones
300 + 70 + 2
372

How many fingers should be on each Countingman?

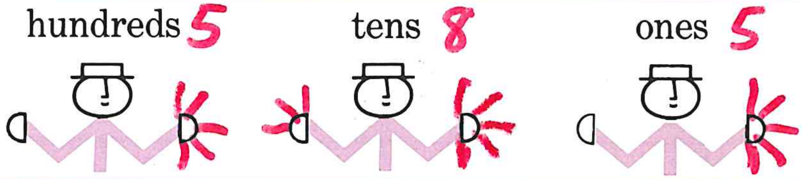
① 800 + 30 + 6



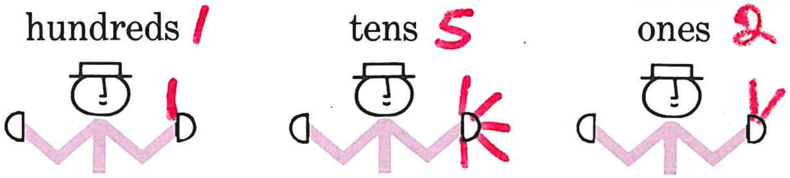
② 200 + 60 + 8



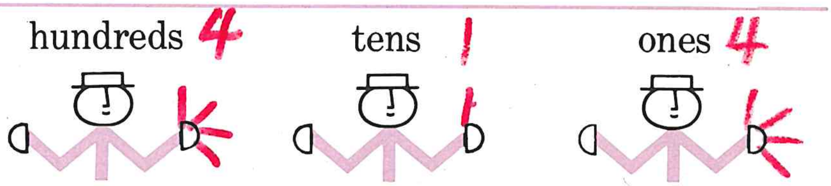
③ 500 + 80 + 5



④ 100 + 50 + 2



⑤ 400 + 10 + 4



Copy each equation and use expanded notation to complete it.

① 351 = 300 + 50 + 1

② 964 = 900 + 60 + 4

③ 617 = 600 + 10 + 7

④ 882 = 800 + 80 + 2

⑤ 225 = 200 + 20 + 5

⑥ 746 = 700 + 40 + 6

Copy and complete each equation.

⑦ 500 + 60 + □ 1 = 561

⑧ 900 + 40 + □ 8 = 948

⑨ 100 + □ 30 + 9 = 139

⑩ 400 + □ 70 + 3 = 473

⑪ □ 800 + 90 + 5 = 895

⑫ □ 600 + 50 + 0 = 650

ADDITION AND SUBTRACTION

$$\begin{array}{r} 700 + 20 + 3 \\ +(100 + 40 + 6) \\ \hline 800 + 60 + 9 = \underline{\qquad\quad} \end{array}$$

$$\begin{array}{r} 7\ 2\ 3 \\ +1\ 4\ 6 \\ \hline 8\ 6\ 9 \end{array}$$

Find the sums.

	A	B	C	D	E
①	312 + 7 319	183 + 15 198	425 +364 789	601 +298 899	250 +432 682
②	729 +150 879	33 +161 194	604 +105 709	586 +203 789	123 +454 577
③	451 +417 868	268 +421 689	118 +260 378	244 +152 396	513 +253 766
④	371 +303 674	32 +400 432	225 +730 955	200 +650 850	410 +153 563
⑤	567 +312 879	426 +330 756	196 +603 799	372 +212 584	20 +847 867

#4

Find the sums.

	A	B	C	D	E
①	624 +272 896	520 +307 827	143 +744 887	236 +463 699	372 +321 693
②	705 +192 897	118 +561 679	306 +162 468	615 +184 799	535 +120 655
③	480 +519 999	362 +407 769	187 +401 588	437 +350 787	142 +316 458
④	302 40 +537 879	6 31 +861 898	23 403 +140 566	133 142 +312 587	203 81 +504 788
⑤	212 250 33 +202 697	104 322 50 +413 889	32 103 61 +802 998	534 120 142 +101 897	302 52 140 +401 895

$$\begin{array}{r} 500 + 70 + 6 \\ -(300 + 60 + 4) \\ \hline 200 + 10 + 2 = \_\_\_\_\_ \end{array}$$

$$\begin{array}{r} 576 \\ -364 \\ \hline 212 \end{array}$$

Find the differences.

	A	B	C	D	E
①	$\begin{array}{r}649\\-\ \ 8\\\hline 641\end{array}$	$\begin{array}{r}356\\-\ 42\\\hline 314\end{array}$	$\begin{array}{r}908\\-406\\\hline 502\end{array}$	$\begin{array}{r}463\\-142\\\hline 321\end{array}$	$\begin{array}{r}487\\-402\\\hline 85\end{array}$
②	$\begin{array}{r}686\\-345\\\hline 341\end{array}$	$\begin{array}{r}788\\-635\\\hline 153\end{array}$	$\begin{array}{r}527\\-115\\\hline 412\end{array}$	$\begin{array}{r}975\\-535\\\hline 440\end{array}$	$\begin{array}{r}869\\-146\\\hline 723\end{array}$
③	$\begin{array}{r}577\\-363\\\hline 214\end{array}$	$\begin{array}{r}396\\-121\\\hline 275\end{array}$	$\begin{array}{r}674\\-513\\\hline 161\end{array}$	$\begin{array}{r}920\\-710\\\hline 210\end{array}$	$\begin{array}{r}468\\-223\\\hline 245\end{array}$
④	$\begin{array}{r}946\\-326\\\hline 620\end{array}$	$\begin{array}{r}853\\-443\\\hline 410\end{array}$	$\begin{array}{r}885\\-282\\\hline 603\end{array}$	$\begin{array}{r}747\\-407\\\hline 340\end{array}$	$\begin{array}{r}989\\-173\\\hline 816\end{array}$
⑤	$\begin{array}{r}982\\-610\\\hline 372\end{array}$	$\begin{array}{r}451\\-330\\\hline 121\end{array}$	$\begin{array}{r}294\\-262\\\hline 32\end{array}$	$\begin{array}{r}675\\-375\\\hline 300\end{array}$	$\begin{array}{r}883\\-340\\\hline 543\end{array}$

Find the differences.

	A	B	C	D	E
①	938 −917 21	666 −234 432	525 −315 210	781 −610 171	194 − 81 113
②	933 −132 801	649 − 38 611	466 −405 61	955 −741 214	387 − 54 333
③	796 −156 640	571 −321 250	863 −362 501	757 −522 235	129 − 13 116
④	636 −235 401	964 −413 551	438 −208 230	276 −274 2	519 −119 400
⑤	879 −567 312	128 − 6 122	768 −304 464	349 −106 243	669 −615 54
⑥	997 −824 173	586 −223 363	277 − 75 202	487 −283 204	855 −450 405

Copy each problem and write the correct numeral in each □.

	A	B	C	D
①	$\begin{array}{r} 32\boxed{2} \\ +\ 1\boxed{3}6 \\ \hline \boxed{4}58 \end{array}$	$\begin{array}{r} \boxed{4}19 \\ +\ 2\boxed{3}0 \\ \hline 64\boxed{9} \end{array}$	$\begin{array}{r} 7\boxed{3}5 \\ +\ \boxed{1}44 \\ \hline 87\boxed{9} \end{array}$	$\begin{array}{r} 51\boxed{1} \\ +\ \boxed{3}77 \\ \hline 8\boxed{8}8 \end{array}$
②	$\begin{array}{r} 97\boxed{7} \\ -\ \boxed{8}36 \\ \hline 1\boxed{4}1 \end{array}$	$\begin{array}{r} 9\boxed{5}9 \\ -\ 32\boxed{7} \\ \hline \boxed{6}32 \end{array}$	$\begin{array}{r} \boxed{5}78 \\ -\ 1\boxed{4}4 \\ \hline 43\boxed{4} \end{array}$	$\begin{array}{r} 87\boxed{0} \\ -\ 2\boxed{5}0 \\ \hline \boxed{6}20 \end{array}$
③	$\begin{array}{r} \boxed{4}34 \\ +\ 16\boxed{3} \\ \hline 5\boxed{9}7 \end{array}$	$\begin{array}{r} 84\boxed{5} \\ -\ 324 \\ \hline \boxed{5}\boxed{2}1 \end{array}$	$\begin{array}{r} 968 \\ -\ \boxed{4}\boxed{4}1 \\ \hline 52\boxed{7} \end{array}$	$\begin{array}{r} 4\boxed{7}2 \\ +\ 42\boxed{3} \\ \hline \boxed{8}95 \end{array}$
④	$\begin{array}{r} \boxed{6}8\boxed{8} \\ -\ 268 \\ \hline 4\boxed{2}0 \end{array}$	$\begin{array}{r} \boxed{8}86 \\ -\ 7\boxed{5}\boxed{0} \\ \hline 136 \end{array}$	$\begin{array}{r} 26\boxed{1} \\ +\ \boxed{2}\boxed{3}1 \\ \hline 492 \end{array}$	$\begin{array}{r} \boxed{5}\boxed{5}5 \\ +\ 412 \\ \hline 96\boxed{7} \end{array}$
⑤	$\begin{array}{r} 475 \\ -\ 3\boxed{2}3 \\ \hline \boxed{1}5\boxed{2} \end{array}$	$\begin{array}{r} 632 \\ +\ 15\boxed{5} \\ \hline \boxed{7}\boxed{8}7 \end{array}$	$\begin{array}{r} 1\boxed{3}6 \\ +\ \boxed{5}32 \\ \hline 66\boxed{8} \end{array}$	$\begin{array}{r} \boxed{6}9\boxed{9} \\ -\ 365 \\ \hline 3\boxed{3}4 \end{array}$

#27

Find the sums and differences.

	A	B	C	D	E
①	833 +125 958	957 −636 321	849 −723 126	742 +231 973	678 −317 361
②	983 −823 160	551 +145 696	977 −572 405	332 +416 748	124 +721 845
③	264 +515 779	594 +304 898	668 −306 362	502 +284 786	348 −143 205
④	792 −642 150	855 −541 314	147 +421 568	538 −221 317	467 +232 699
⑤	846 −332 514	735 +163 898	804 +101 905	666 −154 512	927 −615 312
⑥	187 +300 487	569 −321 248	352 +343 695	907 −703 204	260 +729 989

$$\begin{array}{r} 600 + 30 + 4 \\ + \qquad\quad (20 + 8) \\ \hline 600 + 50 + 12 = 600 + 60 + 2 = \underline{\qquad\quad} \end{array}$$

$$\begin{array}{rrr} & 1 & \\ 6 & 3 & 4 \\ + & 2 & 8 \\ \hline 6 & 6 & 2 \end{array}$$

Find the sums.

	A	B	C	D	E
①	727 + 8 735	239 + 45 284	574 + 18 592	626 + 47 673	312 + 19 331
②	435 + 35 470	127 + 7 134	919 + 21 940	813 + 38 851	631 + 59 690
③	718 + 53 771	516 + 48 564	316 + 69 385	457 + 25 482	223 + 19 242
④	982 + 8 990	466 + 15 481	836 + 26 862	637 + 16 653	549 + 36 585
⑤	428 + 34 462	765 + 27 792	243 + 27 270	357 + 39 396	158 + 6 164

#6

$$\begin{array}{r} 200 + 40 + 3 \\ +(600 + 10 + 8) \\ \hline 800 + 50 + 11 \end{array} = 800 + 60 + 1 = \underline{\qquad}$$

$$\begin{array}{r} 1 \\ 2\,4\,3 \\ +6\,1\,8 \\ \hline 8\,6\,1 \end{array}$$

Find the sums.

	A	B	C	D	E
①	543 +118 661	339 +419 758	739 +227 966	644 +128 772	405 +425 830
②	264 +727 991	179 +515 694	828 +132 960	914 + 69 983	517 +276 793
③	358 +339 697	429 +351 780	627 +317 944	316 +535 851	218 +448 662
④	526 +366 892	839 +156 995	115 +647 762	912 + 39 951	325 +338 663
⑤	254 +626 880	413 +329 742	618 +266 884	526 +448 974	119 +743 862

$$\begin{array}{r} 400 + 0 + 7 \\ +(300 + 0 + 9) \\ \hline 700 + 0 + 16 = 700 + 10 + 6 = \underline{\qquad} \end{array}$$

$$\begin{array}{r} \overset{1}{4\ 0}\ 7 \\ +3\ 0\ 9 \\ \hline 7\ 1\ 6 \end{array}$$

Find the sums.

	A	B	C	D	E
①	605 +205 810	973 + 18 991	351 +519 870	832 +149 981	428 +334 762
②	219 +564 783	556 +325 881	625 +147 772	143 +419 562	656 +306 962
③	148 +523 671	749 +247 996	238 +222 460	417 +534 951	307 +185 492
④	519 +401 920	136 +739 875	625 +256 881	119 +612 731	445 +238 683
⑤	306 +668 974	447 +537 984	432 +108 540	248 +705 953	319 +329 648

#8

$$\begin{array}{r} 1\,2\,0 \\ 2\,1\,4 \\ 3\,0 \\ +6\,0\,2 \\ \hline 9\,6\,6 \end{array} \qquad \begin{array}{r} 1\,\overset{1}{2}\,2 \\ 2\,1\,8 \\ 3\,1 \\ +6\,0\,5 \\ \hline 9\,7\,6 \end{array} \qquad \begin{array}{r} 1\,\overset{2}{2}\,8 \\ 2\,1\,8 \\ 3\,3 \\ +6\,0\,7 \\ \hline 9\,8\,6 \end{array} \qquad \begin{array}{r} 1\,\overset{3}{2}\,9 \\ 2\,1\,9 \\ 3\,9 \\ +6\,0\,9 \\ \hline 9\,9\,6 \end{array}$$

Find the sums.

	A	B	C	D	E
①	426 308 +117 851	109 453 +204 766	52 414 +207 673	315 29 +408 752	326 135 +406 867
②	43 637 + 5 685	428 69 +202 699	9 508 +459 976	335 15 +509 859	117 357 +516 990
③	538 103 52 +105 798	125 107 221 +319 772	36 109 628 +212 985	315 506 49 +126 996	213 352 308 +117 990
④	166 17 8 +705 886	109 63 509 +309 990	428 37 303 +212 980	128 118 609 +137 992	104 300 154 +241 799

Find the sums.

	A	B	C	D
①	135 +245 380	426 +437 863	817 +139 956	727 + 15 742
②	426 +208 634	318 +245 563	137 +118 255	848 + 19 867
③	216 +454 670	788 +102 890	135 +639 774	518 +107 625
④	327 + 56 383	136 +759 895	128 +864 992	565 +218 783
⑤	276 +205 481	665 +207 872	452 + 38 490	558 +406 964

#10

Find the sums.

	A	B	C	D
①	347 +637 984	638 +303 941	745 +206 951	483 +507 990
②	853 +139 992	461 +429 890	234 +728 962	534 +446 980
③	127 +543 670	538 +138 676	324 +539 863	524 +267 791
④	462 +219 681	527 + 54 581	723 +128 851	162 +308 470
⑤	136 +716 852	127 +618 745	416 +127 543	118 +146 264
⑥	926 + 4 930	715 +107 822	137 +526 663	325 +145 470

$$\begin{array}{rrrrrrrrr} 700 & + & 40 & + & 3 & = & 700 & + & 30 & + & 13 \\ - & & (20 & + & 9) & = & - & & (20 & + & 9) \\ \hline & & & & & & 700 & + & 10 & + & 4 = \_\_\_\_ \end{array}$$

$$\begin{array}{r} 7\,\overset{3}{\cancel{4}}\,\overset{1}{3} \\ -\quad 2\,9 \\ \hline 7\,1\,4 \end{array}$$

Find the differences.

	A	B	C	D	E
1	345 − 8 337	176 − 57 119	857 − 39 818	683 − 67 616	561 − 46 515
2	432 − 18 414	775 − 49 726	963 − 26 937	254 − 9 245	395 − 27 368
3	188 − 29 159	814 − 5 809	581 − 47 534	652 − 25 627	973 − 64 909
4	770 − 35 735	444 − 17 427	292 − 76 216	390 − 67 323	821 − 15 806
5	593 − 35 558	645 − 26 619	181 − 34 147	790 − 9 781	472 − 24 448

#24

$$\begin{array}{rl} 500 + 70 + 4 = & 500 + 60 + 14 \\ -(100 + 30 + 8) = & -(100 + 30 + 8) \\ \hline & 400 + 30 + 6 = \_\_\_\_ \end{array} \qquad \begin{array}{r} 5\ \overset{6}{\cancel{7}}\ \overset{1}{4} \\ -1\ 3\ 8 \\ \hline 4\ 3\ 6 \end{array}$$

Find the differences.

	A	B	C	D	E
①	837 −509 328	370 −143 227	563 −138 425	692 −213 479	275 −127 148
②	981 −638 343	474 −218 256	853 −439 414	360 −241 119	971 −453 518
③	582 −227 355	486 −108 378	980 −362 618	992 −579 413	763 −207 556
④	991 −572 419	986 −649 337	884 −516 368	790 −364 426	492 −128 364
⑤	571 −246 325	683 −254 429	985 −139 846	872 −226 646	941 −409 532

$$\begin{array}{r} 600 + 80 + 3 = \\ -(400 + 70 + 6) = \\ \hline \\ \end{array} \quad \begin{array}{r} 600 + 70 + 13 \\ -(400 + 70 + \ \ 6) \\ \hline 200 + \ \ 0 + \ \ 7 = \underline{\qquad} \end{array} \qquad \begin{array}{r} 6\,\overset{7}{\cancel{8}}\,{}^{1}3 \\ -4\ 7\ 6 \\ \hline 2\ 0\ 7 \end{array}$$

Find the differences.

	A	B	C	D
①	537 −329 208	760 −247 513	972 −366 606	684 −546 138
②	891 −175 716	935 −516 419	342 −338 4	453 −124 329
③	271 −159 112	880 −523 357	788 −339 449	661 −312 349
④	876 −808 68	463 −229 234	962 −607 355	250 −244 6
⑤	984 −468 516	771 −417 354	552 −133 419	585 −257 328
⑥	683 −277 406	870 −451 419	892 −385 507	991 −628 363
⑦	794 −759 35	990 −286 704	766 −418 348	890 −324 566

Find the differences.

	A	B	C	D	E	F
①	351 −146 205	683 −208 475	880 −715 165	552 −219 333	445 −239 206	974 −117 857
②	810 −502 308	691 −563 128	753 −635 118	876 −207 659	460 −139 321	987 −768 219
③	634 −425 209	942 −424 518	876 −429 447	755 −528 227	890 −148 742	771 −344 427
④	983 −876 107	847 −329 518	595 −347 248	873 −337 536	992 −658 334	251 −215 36
⑤	980 −334 646	964 −556 408	454 −308 146	943 −409 534	766 −347 419	894 −646 248
⑥	483 −258 225	735 −128 607	951 −624 327	867 −238 629	756 −439 317	488 −319 169

Find the differences.

	A	B	C	D	E	F
①	693 −216 477	742 −617 125	586 −438 148	935 − 16 919	922 −715 207	485 −409 76
②	894 −458 436	575 −157 418	847 −709 138	961 −816 145	793 −737 56	232 −208 24
③	893 − 25 868	672 −504 168	890 −808 82	673 −629 44	852 −606 246	594 −369 225
④	740 −427 313	960 −434 526	780 −353 427	681 −437 244	952 −723 229	893 −254 639
⑤	671 −218 453	340 −136 204	381 −245 136	890 −782 108	680 −249 431	454 −327 127
⑥	891 −633 258	784 −635 149	570 −345 225	686 −457 229	930 −721 209	675 −356 319

#38

Find the sums and differences.

	A	B	C	D	E
①	138 +648 786	984 −407 577	409 +258 667	670 −503 167	858 +139 997
②	571 −234 337	716 +159 875	373 −229 144	225 +725 950	492 −457 35
③	690 −366 324	781 −476 305	344 +538 882	674 −158 516	329 +265 594
④	657 +216 873	138 +837 975	525 −419 106	437 +413 850	313 −305 8
⑤	931 −713 218	860 −544 316	253 +429 682	305 +486 791	842 −636 206
⑥	445 +538 983	542 +108 650	651 −238 413	573 −118 455	258 +304 562

Copy each problem and write the correct numeral in each □.

	A	B	C	D
①	$\begin{array}{r} 6\boxed{2}9 \\ +\ \boxed{2}47 \\ \hline 87\boxed{6} \end{array}$	$\begin{array}{r} 468 \\ -\ 2\boxed{0}\boxed{9} \\ \hline \boxed{2}59 \end{array}$	$\begin{array}{r} \boxed{1}58 \\ +\ 4\boxed{3}9 \\ \hline 59\boxed{7} \end{array}$	$\begin{array}{r} 95\boxed{6} \\ -\ 5\boxed{3}7 \\ \hline \boxed{4}19 \end{array}$
②	$\begin{array}{r} 883 \\ -\ \boxed{3}\boxed{1}5 \\ \hline 56\boxed{8} \end{array}$	$\begin{array}{r} \boxed{2}6\boxed{7} \\ +\ 5\boxed{0}7 \\ \hline 774 \end{array}$	$\begin{array}{r} 77\boxed{0} \\ -\ 435 \\ \hline \boxed{3}\boxed{3}5 \end{array}$	$\begin{array}{r} \boxed{7}16 \\ +\ 1\boxed{7}\boxed{6} \\ \hline 892 \end{array}$
③	$\begin{array}{r} 5\boxed{2}3 \\ +\ \boxed{1}6\boxed{8} \\ \hline 691 \end{array}$	$\begin{array}{r} 4\boxed{4}\boxed{6} \\ +\ 409 \\ \hline \boxed{8}55 \end{array}$	$\begin{array}{r} 6\boxed{1}\boxed{0} \\ -\ \boxed{3}01 \\ \hline 309 \end{array}$	$\begin{array}{r} 751 \\ -\ \boxed{6}2\boxed{2} \\ \hline 1\boxed{2}9 \end{array}$
④	$\begin{array}{r} \boxed{8}\boxed{5}2 \\ -\ 51\boxed{4} \\ \hline 338 \end{array}$	$\begin{array}{r} 14\boxed{8} \\ +\ \boxed{3}27 \\ \hline 4\boxed{7}5 \end{array}$	$\begin{array}{r} \boxed{9}63 \\ -\ 74\boxed{8} \\ \hline 2\boxed{1}5 \end{array}$	$\begin{array}{r} 4\boxed{2}2 \\ +\ 10\boxed{8} \\ \hline \boxed{5}30 \end{array}$
⑤	$\begin{array}{r} 9\boxed{9}4 \\ -\ \boxed{1}35 \\ \hline 85\boxed{9} \end{array}$	$\begin{array}{r} \boxed{7}83 \\ -\ 5\boxed{6}7 \\ \hline 21\boxed{6} \end{array}$	$\begin{array}{r} 63\boxed{7} \\ +\ 148 \\ \hline \boxed{7}\boxed{8}5 \end{array}$	$\begin{array}{r} 324 \\ +\ 539 \\ \hline \boxed{8}\boxed{6}\boxed{3} \end{array}$

40 + 3
+(70 + 5)
110 + 8 = 100 + 10 + 8 = ______

1
43
+75
118

Find the sums.

	A	B	C	D	E
①	72 +66 138	55 +74 129	61 +46 107	72 +73 145	84 +94 178
②	73 +82 155	62 +94 156	51 +85 136	73 +93 166	84 +52 136
③	83 +74 157	84 +81 165	62 +65 127	51 +92 143	62 +72 134
④	83 +45 128	84 +63 147	34 +75 109	51 +64 115	61 +51 112
⑤	83 +36 119	74 +43 117	62 +45 107	82 +26 108	47 +82 129
⑥	36 +93 129	45 +93 138	26 +82 108	37 +81 118	75 +32 107
⑦	52 +57 109	15 +91 106	73 +51 124	61 +87 148	44 +65 109
⑧	48 +71 119	26 +91 117	81 +98 179	61 +83 144	72 +91 163

$$\begin{array}{r} 500 + 70 + 2 \\ +(300 + 90 + 6) \\ \hline 800 + 160 + 8 = 900 + 60 + 8 = \underline{\qquad\quad} \end{array}$$

$$\begin{array}{r} {}^{1} \\ 572 \\ +396 \\ \hline 968 \end{array}$$

Find the sums.

	A	B	C	D	E
①	456 +253 709	195 +532 727	580 +353 933	471 +496 967	753 +163 916
②	263 +391 654	83 +285 368	387 + 71 458	222 +594 816	442 + 76 518
③	669 +280 949	391 +484 875	195 +654 849	654 +173 827	237 +492 729
④	448 +381 829	865 + 74 939	75 +143 218	284 +295 579	540 +165 705
⑤	563 +242 805	152 +787 939	363 +556 919	670 +181 851	251 + 97 348
⑥	246 +382 628	160 +654 814	591 +381 972	373 +195 568	282 +622 904

#12

Find the sums.

	A	B	C	D	E
①	434 +271 605	541 + 73 614	570 +146 716	365 +384 749	294 + 564 858
②	162 +761 923	494 +433 927	383 +550 933	441 +395 836	270 +488 858
③	186 +483 669	871 + 30 901	366 +291 657	90 +247 337	746 +160 906
④	87 +360 447	550 +299 849	375 +474 849	298 + 50 348	382 +240 622
⑤	152 +787 939	364 +470 834	691 +128 8[illegible]9	383 +295 678	670 +260 930
⑥	476 +483 959	175 +561 736	482 +174 656	461 +393 854	362 +146 508
⑦	157 +651 808	837 + 70 907	473 +295 768	283 +163 446	154 +361 515

Find the sums.

	A	B	C	D	E
①	463 + 82 545	523 +286 809	182 +742 924	685 +193 878	274 +530 804
②	351 + 82 433	183 +184 367	634 +295 929	182 +157 339	153 +470 623
③	262 +370 632	372 +476 848	75 +134 209	465 +260 725	463 +453 916
④	182 +634 816	365 +142 507	184 +721 905	251 +358 609	574 +143 717
⑤	137 +582 719	642 +187 829	356 +292 648	173 +250 423	257 +261 518
⑥	281 +543 824	245 +173 418	136 +473 609	867 + 90 957	124 +180 304
⑦	643 +296 939	278 +391 669	284 +672 956	352 +284 636	483 +395 878

#14

1	2	3
262	232	292
124	164	184
13	73	73
330	360	380
729	829	929

Find the sums.

	A	B	C	D	E
①	250 331 +262 843	594 61 +153 808	485 210 +272 967	141 300 +396 837	293 283 +153 729
②	182 90 +574 846	54 180 +475 709	260 163 +291 714	482 85 +392 959	183 402 +254 839
③	74 563 81 +240 958	181 40 84 +664 969	293 242 60 +284 879	192 302 152 +192 838	372 51 264 + 70 757
④	61 280 473 + 94 908	196 291 60 +372 919	280 130 180 +354 944	273 240 51 +141 705	192 233 171 +190 786

Find the sums.

	A	B	C	D	E
①	697 +142 839	385 +274 659	563 +161 724	277 +481 758	454 +394 848
②	52 261 +596 909	491 60 + 278 829	283 111 +482 876	375 361 +181 917	265 250 +394 909
③	240 72 136 +300 748	451 174 163 + 91 879	240 283 194 +262 979	222 393 12 +181 808	252 152 180 +243 827
④	181 42 170 +123 516	371 372 30 +146 919	194 50 154 +381 779	81 152 372 +283 888	60 292 130 +125 607
⑤	71 143 352 92 +170 828	173 130 292 160 +171 926	382 91 170 90 +185 918	143 61 274 261 +150 889	92 82 192 260 +290 916

#28

$$\begin{array}{rcl} 700 + 50 + 8 & = & 600 + 150 + 8 \\ -(400 + 80 + 4) & = & -(400 + 80 + 4) \\ \hline & & 200 + 70 + 4 = \underline{\qquad} \end{array}$$

$$\begin{array}{r} \overset{6}{\cancel{7}}\,{}^{1}5\,8 \\ -4\,8\,4 \\ \hline 2\,7\,4 \end{array}$$

Find the differences.

	A	B	C	D	E
①	839 −366 473	657 −593 64	727 −235 492	946 −683 263	518 −134 384
②	344 −164 180	469 −275 194	736 − 94 642	817 −652 165	535 −374 161
③	456 −171 285	927 −584 343	609 −297 312	948 − 50 898	714 −562 152
④	629 −354 275	378 −287 91	945 −392 553	859 −268 591	628 −441 187
⑤	849 −473 376	816 −580 236	509 −122 387	928 −778 150	739 −449 290

Find the differences.

	A	B	C	D	E
①	839 −584 255	637 −464 173	918 −542 376	745 −580 165	821 −691 130
②	966 −793 173	718 −384 334	649 −273 376	937 −250 687	853 −372 481
③	434 −290 144	715 −222 493	512 −451 61	965 −581 384	568 −378 190
④	713 −663 50	859 −162 697	956 −181 775	628 −563 65	714 −133 581
⑤	943 −860 83	319 −291 28	535 −271 264	779 −480 299	882 −592 290
⑥	773 −290 483	659 −295 364	924 −641 283	842 −750 92	349 −197 152

$$\begin{array}{rcl} 300 + 0 + 7 = & & 200 + 100 + 7 \\ -(100 + 80 + 2) = & & -(100 + 80 + 2) \\ \hline & & 100 + 20 + 5 = \_\_\_\_\_ \end{array} \qquad \begin{array}{r} \overset{2}{\cancel{3}}\,{}^{1}0\;7 \\ -1\;8\;2 \\ \hline 1\;2\;5 \end{array}$$

Find the differences.

	A	B	C	D	E
①	706 −392 314	839 −273 566	305 −184 121	281 −190 91	407 −172 235
②	646 −375 271	925 −782 143	568 −396 172	907 −465 442	609 −155 454
③	437 −296 141	308 −245 63	629 −372 257	504 −132 372	856 −384 472
④	914 −293 621	609 −424 185	462 −181 281	777 −184 593	802 −110 692
⑤	837 −657 180	758 −464 294	809 −386 423	909 −178 731	379 −197 182
⑥	408 −136 272	938 −372 566	828 −496 332	508 −342 166	688 −295 393

Find the differences.

	A	B	C	D	E	F
①	547 −393 154	724 −491 233	605 −284 321	878 −694 184	509 −244 265	657 −182 475
②	306 −175 131	469 −273 196	986 −593 293	718 −181 597	806 −582 224	432 −251 181
③	606 −394 212	607 −265 342	429 −175 154	947 −267 680	905 −353 552	864 −683 181
④	957 −492 465	804 − 22 782	879 −386 493	515 −174 341	407 − 74 333	909 −732 177
⑤	356 −173 183	908 −617 291	627 −183 444	809 −458 351	983 −493 490	528 −376 152
⑥	664 −182 482	748 −263 485	459 −371 88	708 −464 244	436 −175 261	629 −385 244

#56

Find the differences.

	A	B	C	D	E	F
①	375 −182 193	517 −463 54	609 −237 372	845 −285 560	857 −761 196	675 −491 184
②	706 −646 60	709 −586 123	958 −281 677	723 − 52 671	869 −578 291	969 − 93 876
③	634 −584 50	435 −293 142	953 −591 362	839 −469 370	627 −395 232	418 −386 32
④	518 −297 221	306 −292 14	517 −157 360	306 − 54 252	705 −374 331	938 −645 293
⑤	928 −362 566	817 −374 443	947 −456 491	929 −748 181	739 −152 587	948 −171 777
⑥	406 −125 281	977 −682 295	708 −315 393	829 −134 695	967 −274 693	849 −497 352

Find the sums and differences.

	A	B	C	D	E
①	432 +187 619	719 −267 452	837 −283 554	643 +292 935	904 −262 642
②	358 +181 539	227 +391 618	745 −383 362	878 −485 393	534 +294 828
③	629 −295 334	758 −186 572	175 +454 629	291 +496 787	769 −593 176
④	262 +185 447	948 −173 775	582 +332 914	371 +381 752	281 +685 966
⑤	629 −136 493	756 −494 262	837 −676 161	713 −541 172	183 +764 947
⑥	363 +596 959	966 −486 480	157 +352 509	809 −458 351	194 +785 979

Copy each problem and write the correct numeral in each □.

	A	B	C	D
①	$\begin{array}{r} 392 \\ +\ \boxed{2}\boxed{4}\boxed{5} \\ \hline 637 \end{array}$	$\begin{array}{r} \boxed{5}\boxed{8}\boxed{1} \\ +\ 293 \\ \hline 874 \end{array}$	$\begin{array}{r} \boxed{5}86 \\ +\ 3\boxed{3}3 \\ \hline 91\boxed{9} \end{array}$	$\begin{array}{r} 46\boxed{4} \\ +\ 2\boxed{9}3 \\ \hline \boxed{7}57 \end{array}$
②	$\begin{array}{r} 829 \\ -\ \boxed{3}\boxed{6}\boxed{1} \\ \hline 468 \end{array}$	$\begin{array}{r} \boxed{9}\boxed{4}\boxed{9} \\ -\ 467 \\ \hline 482 \end{array}$	$\begin{array}{r} \boxed{7}65 \\ -\ 2\boxed{8}4 \\ \hline 48\boxed{1} \end{array}$	$\begin{array}{r} 63\boxed{8} \\ -\ 3\boxed{7}5 \\ \hline \boxed{2}63 \end{array}$
③	$\begin{array}{r} 352 \\ +\ \boxed{3}\boxed{7}\boxed{6} \\ \hline 728 \end{array}$	$\begin{array}{r} 9\boxed{2}8 \\ -\ \boxed{3}72 \\ \hline 55\boxed{6} \end{array}$	$\begin{array}{r} \boxed{8}\boxed{3}\boxed{8} \\ -\ 496 \\ \hline 342 \end{array}$	$\begin{array}{r} \boxed{3}65 \\ +\ 5\boxed{4}4 \\ \hline 90\boxed{9} \end{array}$
④	$\begin{array}{r} 71\boxed{9} \\ -\ 3\boxed{2}6 \\ \hline \boxed{3}93 \end{array}$	$\begin{array}{r} 584 \\ +\ \boxed{1}\boxed{5}\boxed{1} \\ \hline 735 \end{array}$	$\begin{array}{r} \boxed{9}47 \\ -\ 4\boxed{7}6 \\ \hline 47\boxed{1} \end{array}$	$\begin{array}{r} 734 \\ -\ \boxed{5}\boxed{6}\boxed{2} \\ \hline 172 \end{array}$
⑤	$\begin{array}{r} 2\boxed{5}6 \\ +\ \boxed{3}52 \\ \hline 60\boxed{8} \end{array}$	$\begin{array}{r} \boxed{9}\boxed{8}\boxed{7} \\ -\ 294 \\ \hline 693 \end{array}$	$\begin{array}{r} 73\boxed{1} \\ +\ 1\boxed{9}6 \\ \hline \boxed{9}27 \end{array}$	$\begin{array}{r} 5\boxed{0}6 \\ -\ \boxed{3}92 \\ \hline 11\boxed{4} \end{array}$

Find the sums and differences.

	A	B	C	D	E
①	219 +732 951	175 +734 909	276 +219 495	591 +388 979	436 +156 592
②	257 +672 929	676 +241 917	489 +406 895	349 +233 582	354 +482 836
③	525 +235 760	284 +545 829	335 +636 971	571 +164 835	619 +324 943
④	291 +476 767	593 +291 884	328 +416 744	645 +264 909	436 +258 694
⑤	649 −581 68	534 −429 105	927 −561 366	819 −568 251	685 −129 556
⑥	985 −336 649	845 −671 174	892 −127 765	925 −617 308	538 −377 161
⑦	856 −429 427	743 −429 314	791 −247 544	926 −754 172	671 −238 433

#42

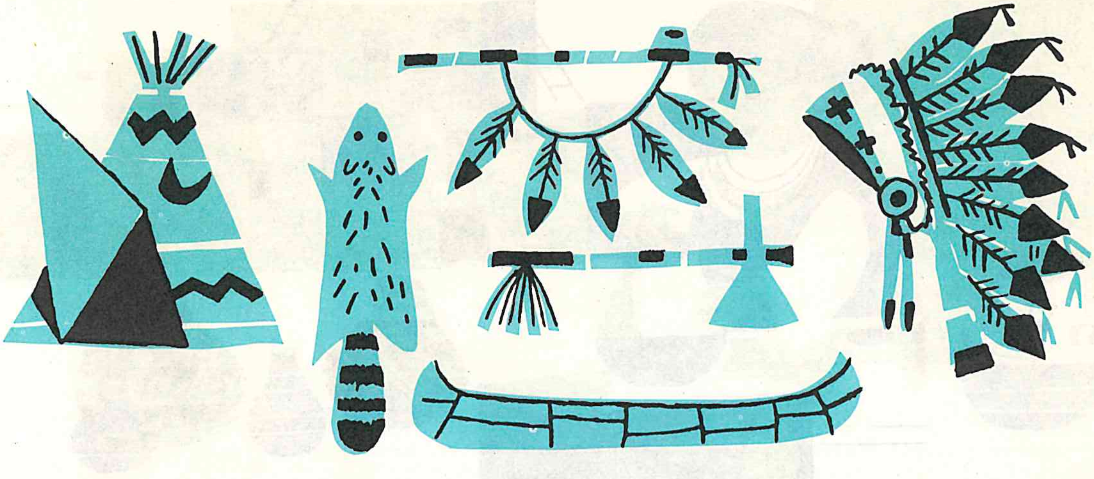
Find the sums and differences.

	A	B	C	D	E
①	764 −573 191	374 −165 209	634 −361 273	782 −434 348	639 −285 354
②	793 −275 518	849 −663 186	867 −239 628	782 −358 424	481 −319 162
③	257 +635 892	680 −247 433	424 +358 782	373 −169 204	465 −282 183
④	396 +573 969	348 +247 595	752 −238 514	954 −683 271	364 +445 809
⑤	678 −349 329	368 +128 496	432 +238 670	739 −584 155	582 +293 875
⑥	947 −763 184	642 −419 223	128 +646 774	538 −167 371	243 +276 519

Copy each problem and write the correct numeral in each □.

	A	B	C	D
①	$\begin{array}{r} \boxed{2}\boxed{5}\boxed{2} \\ +\ 4\ 8\ 2 \\ \hline 7\ 3\ 4 \end{array}$	$\begin{array}{r} 7\ 4\ 3 \\ +\ \boxed{1}\boxed{4}\boxed{9} \\ \hline 8\ 9\ 2 \end{array}$	$\begin{array}{r} 9\ \boxed{4}\ 6 \\ -\ \boxed{4}\ 8\ 2 \\ \hline 4\ 6\ \boxed{4} \end{array}$	$\begin{array}{r} 6\ 1\ \boxed{3} \\ -\ 3\ \boxed{7}\ 2 \\ \hline \boxed{2}\ 4\ 1 \end{array}$
②	$\begin{array}{r} \boxed{7}\boxed{8}\boxed{5} \\ -\ 3\ 5\ 7 \\ \hline 4\ 2\ 8 \end{array}$	$\begin{array}{r} 5\ \boxed{2}\ 2 \\ +\ \boxed{1}\ 8\ 3 \\ \hline 7\ 0\ \boxed{5} \end{array}$	$\begin{array}{r} 3\ 5\ \boxed{6} \\ +\ 3\ \boxed{9}\ 2 \\ \hline \boxed{7}\ 4\ 8 \end{array}$	$\begin{array}{r} 8\ 0\ 7 \\ -\ \boxed{6}\boxed{5}\boxed{3} \\ \hline 1\ 5\ 4 \end{array}$
③	$\begin{array}{r} 4\ \boxed{1}\ 8 \\ +\ 3\ 7\ \boxed{7} \\ \hline \boxed{7}\ 9\ 5 \end{array}$	$\begin{array}{r} \boxed{4}\ 6\ 8 \\ +\ 1\ \boxed{1}\ 9 \\ \hline 5\ 8\ \boxed{7} \end{array}$	$\begin{array}{r} 7\ 7\ \boxed{0} \\ -\ 5\ \boxed{4}\ 7 \\ \hline \boxed{2}\ 2\ 3 \end{array}$	$\begin{array}{r} \boxed{9}\boxed{3}\boxed{6} \\ -\ 6\ 9\ 4 \\ \hline 2\ 4\ 2 \end{array}$
④	$\begin{array}{r} 5\ \boxed{3}\ 3 \\ -\ \boxed{4}\ 0\ 6 \\ \hline 1\ 2\ \boxed{7} \end{array}$	$\begin{array}{r} \boxed{6}\boxed{3}\boxed{1} \\ +\ 3\ 1\ 9 \\ \hline 9\ 5\ 0 \end{array}$	$\begin{array}{r} 3\ 8\ 5 \\ +\ \boxed{2}\boxed{6}\boxed{2} \\ \hline 6\ 4\ 7 \end{array}$	$\begin{array}{r} 8\ 9\ 0 \\ -\ \boxed{2}\boxed{7}\boxed{3} \\ \hline 6\ 1\ 7 \end{array}$
⑤	$\begin{array}{r} 9\ 5\ \boxed{7} \\ -\ 2\ \boxed{1}\ 9 \\ \hline \boxed{7}\ 3\ 8 \end{array}$	$\begin{array}{r} \boxed{7}\boxed{8}\boxed{5} \\ -\ 1\ 7\ 6 \\ \hline 6\ 0\ 9 \end{array}$	$\begin{array}{r} \boxed{1}\ 8\ 4 \\ +\ 3\ \boxed{3}\ 5 \\ \hline 5\ 1\ \boxed{9} \end{array}$	$\begin{array}{r} 3\ 5\ \boxed{2} \\ +\ 4\ \boxed{7}\ 5 \\ \hline \boxed{8}\ 2\ 7 \end{array}$

STORY PROBLEMS



AROUND THE CAMPFIRE

Work the story problems.

1. The hunters in the Indian tribe sat around the campfire. They told of the many animals they had caught on the last hunt. They had caught 80 beavers, 73 deer, and 96 foxes. The hunters had caught 249 animals.
2. The hunters had traveled a long distance. They had paddled their canoes 193 miles upstream and 193 miles downstream. The hunters had traveled 386 miles.
3. The chief stood up to tell the hunters how proud he was of them. His headdress held 106 feathers. Thirty-five of the feathers were blue. The other 71 feathers were white.
4. The Indians returned to their tents. One hundred twenty-three tents stood on the north side of the campfire. Eighty-two tents stood on the south side. 41 fewer tents stood to the south of the campfire than to the north. (Note: "Forty-one" can also be accepted as a word.)

INDIAN SQUAWS

Work the story problems.

1. The Indian squaws were busy with their work. They made 238 pieces of pottery. They would sell 84 pieces. The other 154 pieces would be used by the tribe.

2. On a low wooden bench lay 134 beaded belts. Next to them lay 82 beaded headbands. The squaws spent many hours making these 216 beaded objects.

3. The squaws spread 149 animal skins in the sun to dry. Sixty-two of the skins would be used to make moccasins. The other 87 skins would be made into shirts and dresses.

4. The squaws prepared a feast for all 565 Indians in the tribe. First the 392 grownups ate. When they were finished the 173 children sat down to eat.

AT THE LOGGING CAMP

Work the story problems.

1. The lumberjacks sat down to breakfast. They ate 152 flapjacks. Yesterday they had eaten 187 flapjacks. They ate 339 flapjacks in two days.

2. The lumberjacks went into the woods with saws and axes on their shoulders. They would cut 174 trees today. Yesterday 182 trees had fallen. In the two days, 356 trees had been cut down.

3. The logs were loaded on flatcars. One train carried 404 logs to the river. Another train carried 293 logs. There were 111 more logs on one train than on the other.

4. When the two trains reached the river, they dumped their loads of logs. The 697 logs splashed into the water. They joined 275 logs already in the river. Together the 972 logs began their journey downstream.

AT THE SAWMILL

Work the story problems.

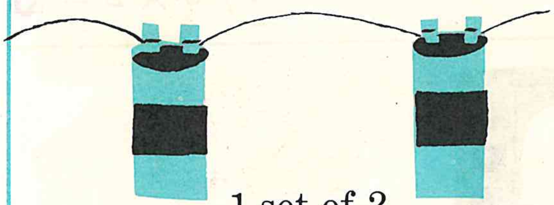
1. The logs reached the sawmill. The big saw cut 196 logs into boards. A smaller saw cut up 143 logs. The two saws cut up 339 logs.
2. The men at the mill kept a careful record of the lumber. Each pile of boards was counted and labeled.

Wood	Number of Boards
birch	672
cedar	481
maple	447
oak	836
pine	750

The mill had more oak wood than any other kind.

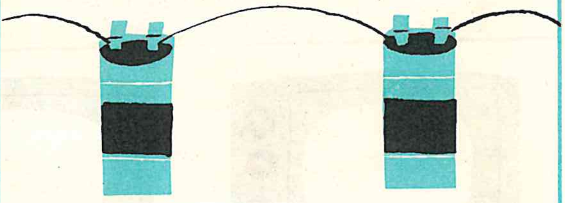
3. The record showed that there were 86 more oak boards than pine boards.
4. Together there were 928 cedar and maple boards.
5. There were 191 fewer cedar boards than birch boards.

MULTIPLICATION



1 set of 2

2 batteries



$1 \times 2 = \boxed{2}$

Copy and complete each equation.

①

Note: Zero multiplied by any number is zero.

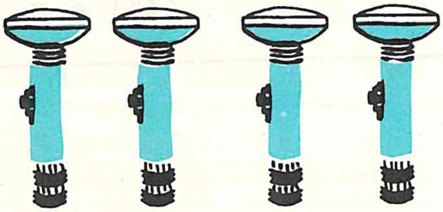
$0 \times 2 = \boxed{0}$

②

Note: One multiplied by any number is the same number.

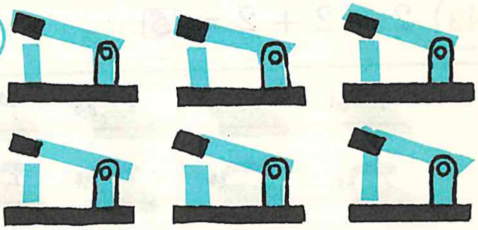
$1 \times 2 = \boxed{2}$

③



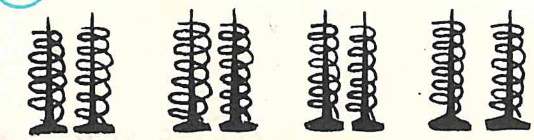
$2 \times 2 = \boxed{4}$

④



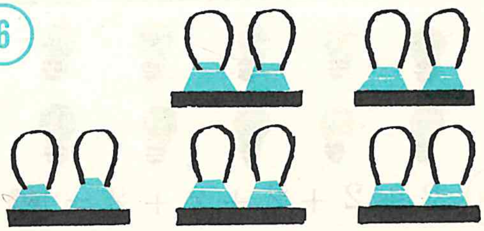
$3 \times 2 = \boxed{6}$

⑤



$4 \times 2 = \boxed{8}$

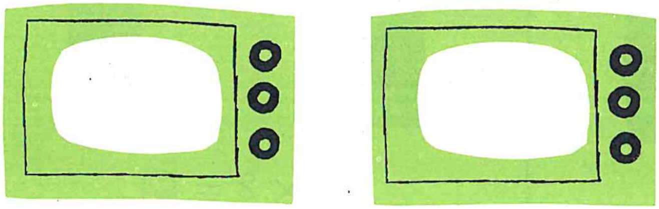
⑥



$5 \times 2 = \boxed{10}$

Copy and complete each equation.

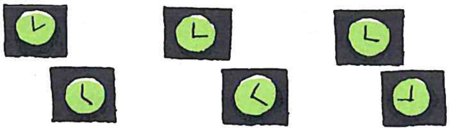
① $0 \times 2 = \boxed{0}$



② $1 \times 2 = \boxed{2}$

(3a) $2 + 2 = \boxed{4}$

(3b) $2 \times 2 = \boxed{4}$

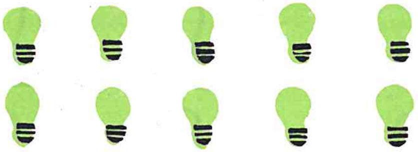


(4a) $2 + 2 + 2 = \boxed{6}$

(4b) $3 \times 2 = \boxed{6}$

(5a) $2 + 2 + 2 + 2 = \boxed{8}$

(5b) $4 \times 2 = \boxed{8}$

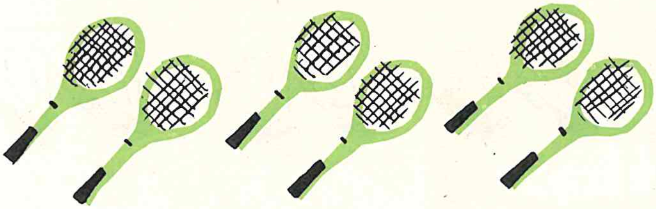


(6a) $2 + 2 + 2 + 2 + 2 = \boxed{10}$

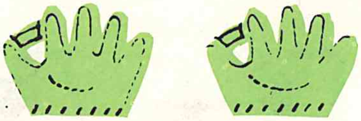
(6b) $5 \times 2 = \boxed{10}$

We can think of multiplication as repeated addition.

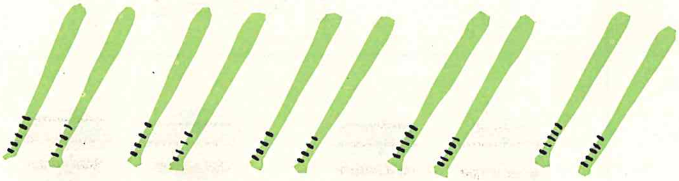
Use the sets to find the missing factors.
Copy and complete each equation.



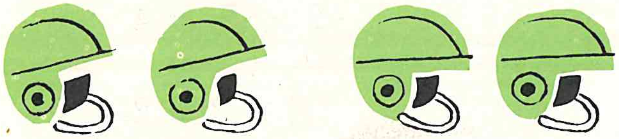
① $\boxed{3} \times 2 = 6$



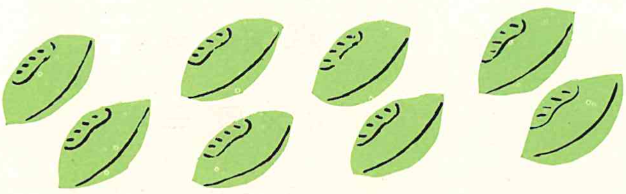
② $\boxed{1} \times 2 = 2$



③ $\boxed{5} \times 2 = 10$

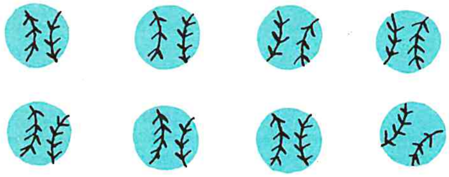


④ $\boxed{2} \times 2 = 4$

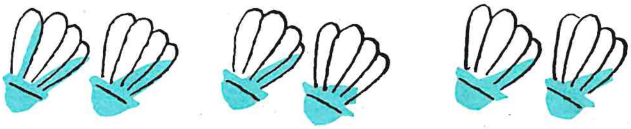


⑤ $\boxed{4} \times 2 = 8$

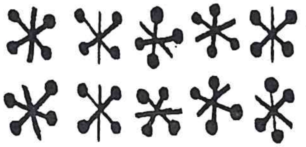
Use the sets to find the missing factors.
Copy and complete each equation.



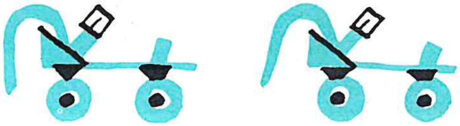
① $\boxed{4} \times 2 = 8$



② $3 \times \boxed{2} = 6$

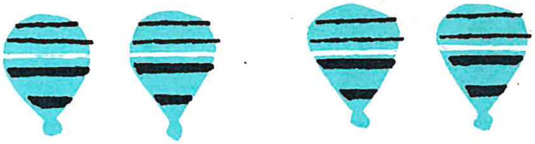


③ $5 \times \boxed{2} = 10$



④ $\boxed{1} \times 2 = 2$

⑤ $\boxed{0} \times 2 = 0$



⑥ $2 \times \boxed{2} = 4$

⑦ $\boxed{3} \times 2 = 6$

⑧ $5 \times \boxed{2} = 10$

⑨ $\boxed{4} \times 2 = 8$

⑩ $1 \times \boxed{2} = 2$

⑪ $\boxed{0} \times 2 = 0$

⑫ $\boxed{1} \times 2 = 2$

⑬ $4 \times \boxed{2} = 8$

⑭ $\boxed{2} \times 2 = 4$

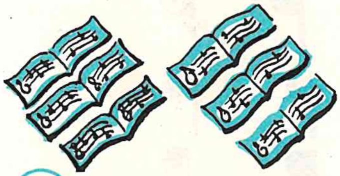
⑮ $3 \times \boxed{2} = 6$

⑯ $\boxed{5} \times 2 = 10$

Copy and complete each equation.

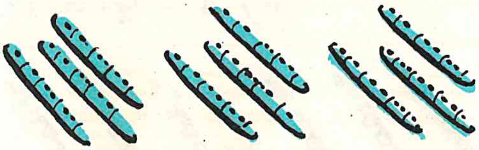
① $0 \times 3 = \boxed{0}$

② $1 \times 3 = \boxed{3}$



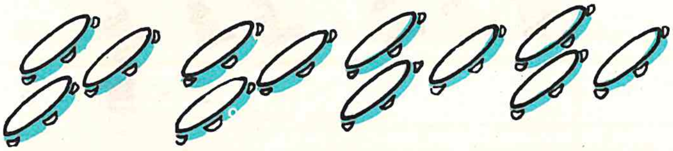
(3a) $3 + 3 = \boxed{6}$

(3b) $2 \times 3 = \boxed{6}$



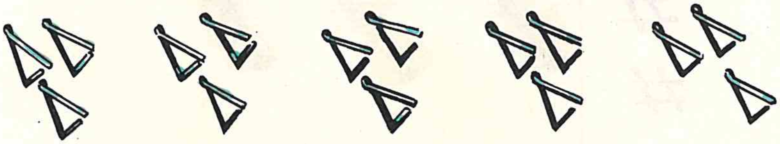
(4a) $3 + 3 + 3 = \boxed{9}$

(4b) $3 \times 3 = \boxed{9}$



(5a) $3 + 3 + 3 + 3 = \square$ 12

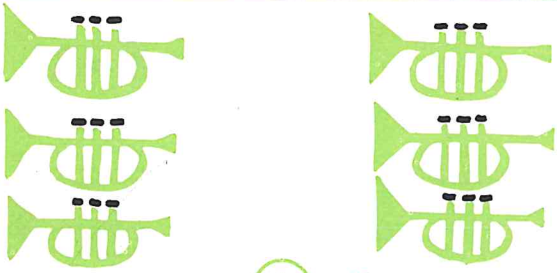
(5b) $4 \times 3 = \square$ 12



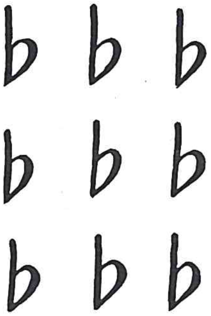
(6a) $3 + 3 + 3 + 3 + 3 = \square$ 15

(6b) $5 \times 3 = \square$ 15

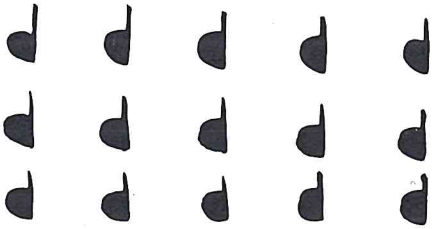
Use the sets to find the missing factors.
Copy and complete each equation.



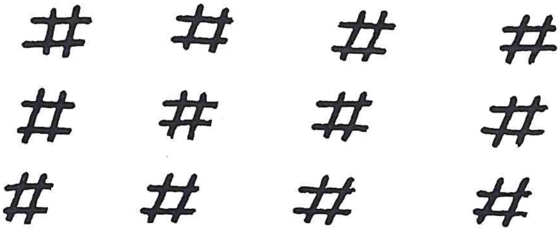
① $\boxed{2} \times 3 = 6$



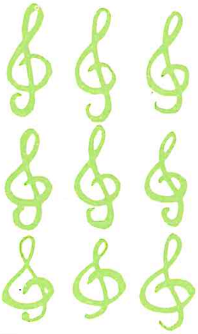
② $\boxed{3} \times 3 = 9$



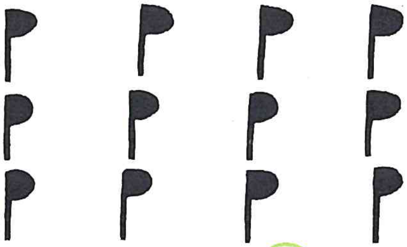
③ $\boxed{5} \times 3 = 15$



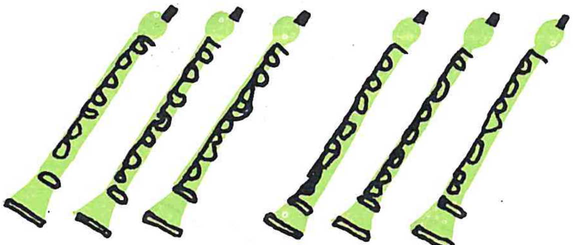
④ $\boxed{4} \times 3 = 12$



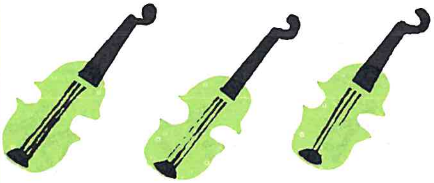
⑤ $3 \times \boxed{3} = 9$



⑥ $4 \times \boxed{3} = 12$



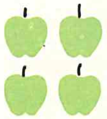
⑦ $2 \times \boxed{3} = 6$



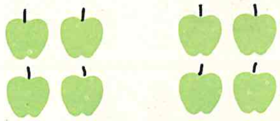
⑧ $1 \times \boxed{3} = 3$

Copy and complete each equation.

① $0 \times 4 = \boxed{0}$

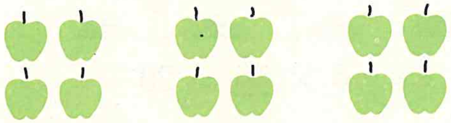


② $1 \times 4 = \boxed{4}$



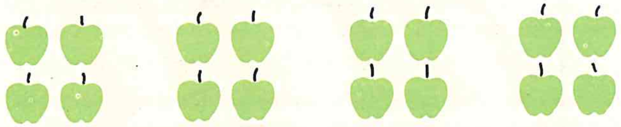
(3a) $4 + 4 = \boxed{8}$

(3b) $2 \times 4 = \boxed{8}$



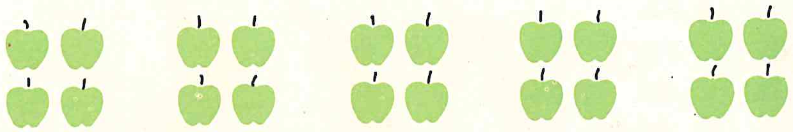
(4a) $4 + 4 + 4 = \boxed{12}$

(4b) $3 \times 4 = \boxed{12}$



(5a) $4 + 4 + 4 + 4 = \boxed{16}$

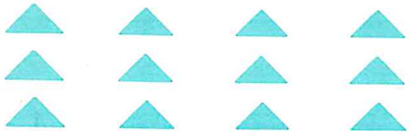
(5b) $4 \times 4 = \boxed{16}$



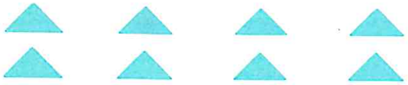
(6a) $4 + 4 + 4 + 4 + 4 = \boxed{20}$

(6b) $5 \times 4 = \boxed{20}$

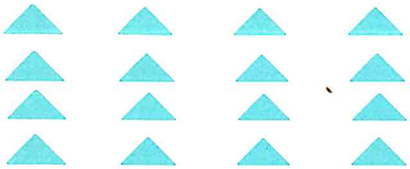
Use the sets to find the missing factors.
Copy and complete each equation.



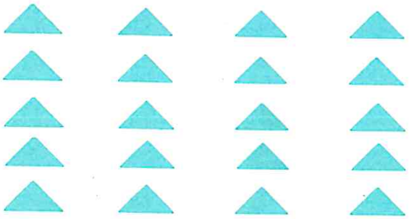
① $\boxed{3} \times 4 = 12$



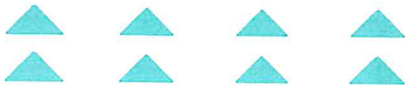
② $\boxed{2} \times 4 = 8$



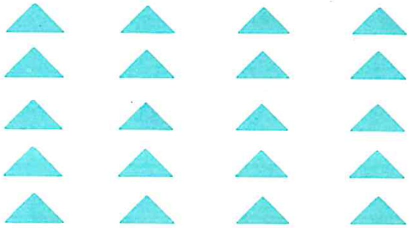
③ $\boxed{4} \times 4 = 16$



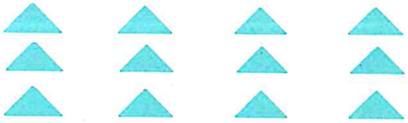
④ $\boxed{5} \times 4 = 20$



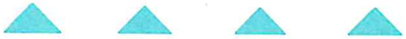
⑤ $2 \times \boxed{4} = 8$



⑥ $5 \times \boxed{4} = 20$



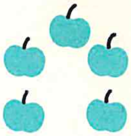
⑦ $3 \times \boxed{4} = 12$



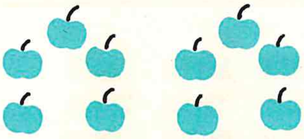
⑧ $1 \times \boxed{4} = 4$

Copy and complete each equation.

① $0 \times 5 = \boxed{0}$

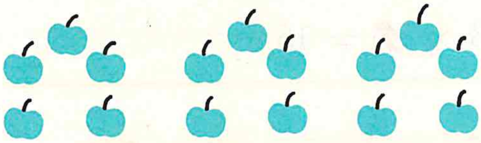


② $1 \times 5 = \boxed{5}$



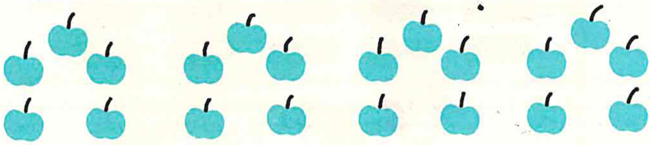
(3a) $5 + 5 = \boxed{10}$

(3b) $2 \times 5 = \boxed{10}$



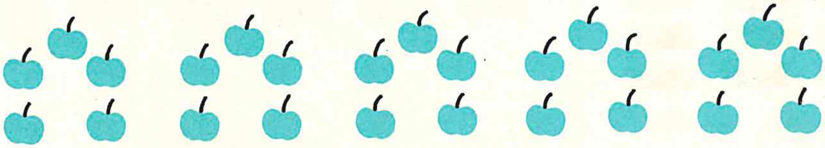
(4a) $5 + 5 + 5 = \boxed{15}$

(4b) $3 \times 5 = \boxed{15}$



(5a) $5 + 5 + 5 + 5 = \boxed{20}$

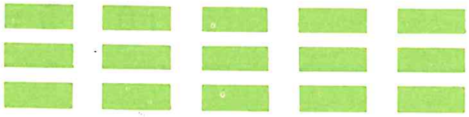
(5b) $4 \times 5 = \boxed{20}$



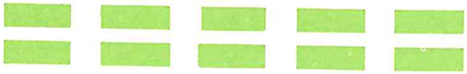
(6a) $5 + 5 + 5 + 5 + 5 = \boxed{25}$

(6b) $5 \times 5 = \boxed{25}$

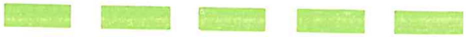
Use the sets to find the missing factors.
Copy and complete each equation.



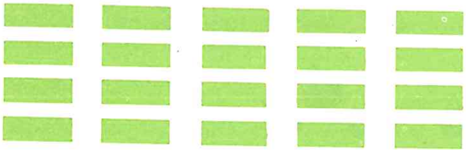
① $\boxed{3} \times 5 = 15$



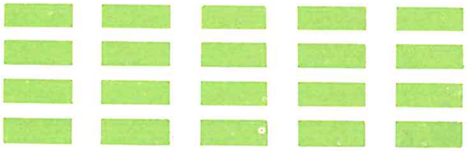
② $2 \times \boxed{5} = 10$



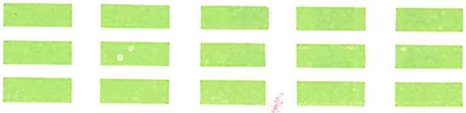
③ $\boxed{1} \times 5 = 5$



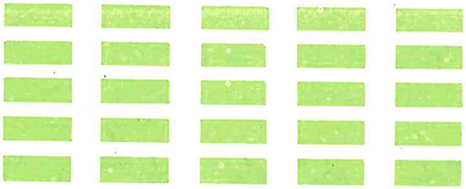
④ $\boxed{4} \times 5 = 20$



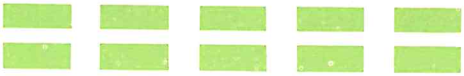
⑤ $4 \times \boxed{5} = 20$



⑥ $3 \times \boxed{5} = 15$

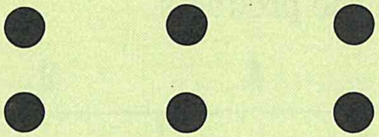


⑦ $5 \times \boxed{5} = 25$



⑧ $\boxed{2} \times 5 = 10$

$2 \times 3 = \boxed{6}$



$3 \times 2 = \boxed{6}$

Copy and complete each equation.

1a $4 \times 3 = \boxed{12}$

1b $3 \times 4 = \boxed{12}$

2a $5 \times 4 = \boxed{20}$

2b $4 \times 5 = \boxed{}$ 20

3a $1 \times 4 = \boxed{4}$

3b $4 \times 1 = \boxed{4}$

4a $0 \times 5 = \boxed{0}$

4b $5 \times 0 = \boxed{0}$

5a $2 \times 5 = \boxed{10}$

5b $5 \times 2 = \boxed{10}$

6a $3 \times 5 = \boxed{15}$

6b $5 \times 3 = \boxed{15}$

7a $1 \times 3 = \boxed{3}$

7b $3 \times 1 = \boxed{3}$

8a $0 \times 2 = \boxed{0}$

8b $2 \times 0 = \boxed{0}$

9a $2 \times 4 = \boxed{8}$

9b $4 \times 2 = \boxed{8}$

10a $1 \times 2 = \boxed{2}$

10b $2 \times 1 = \boxed{2}$

11a $1 \times 5 = \boxed{5}$

11b $5 \times 1 = \boxed{5}$

12a $0 \times 4 = \boxed{0}$

12b $4 \times 0 = \boxed{0}$

Multiplication is commutative.

Find the products.

	A	B	C	D	E
①	2 × 2 4	3 × 5 15	2 × 4 8	3 × 0 0	0 × 4 0
②	1 × 3 3	5 × 3 15	4 × 4 16	1 × 4 4	2 × 0 2
③	4 × 1 4	0 × 5 0	2 × 1 2	2 × 3 6	4 × 2 8
④	0 × 3 0	5 × 1 5	4 × 5 20	4 × 3 12	5 × 5 25
⑤	3 × 2 6	2 × 5 10	0 × 2 0	3 × 3 9	3 × 1 3
⑥	4 × 0 0	1 × 2 2	5 × 4 20	1 × 5 5	3 × 4 12

The product of any number and zero is zero.
The product of any number and one is that same number.

Copy and complete each equation.

① $2 \times \boxed{4} = 8$

② $5 \times \boxed{3} = 15$

③ $\boxed{1} \times 3 = 3$

④ $3 \times \boxed{2} = 6$

⑤ $\boxed{1} \times 5 = 5$

⑥ $3 \times 3 = \boxed{9}$

⑦ $4 \times \boxed{4} = 16$

⑧ $2 \times \boxed{2} = 4$

⑨ $3 \times \boxed{1} = 3$

⑩ $\boxed{4} \times 3 = 12$

⑪ $2 \times \boxed{3} = 6$

⑫ $5 \times \boxed{5} = 25$

⑬ $\boxed{4} \times 2 = 8$

⑭ $3 \times \boxed{0} = 0$

⑮ $\boxed{4} \times 5 = 20$

⑯ $\boxed{2} \times 5 = 10$

⑰ $\boxed{5} \times 4 = 20$

⑱ $\boxed{3} \times 4 = 12$

⑲ $3 \times \boxed{5} = 15$

⑳ $2 \times \boxed{1} = 2$

㉑ $\boxed{0} \times 2 = 0$

㉒ $\boxed{5} \times 2 = 10$

㉓ $\boxed{4} \times 1 = 4$

㉔ $5 \times \boxed{1} = 5$

㉕ $1 \times \boxed{1} = 1$

㉖ $4 \times \boxed{0} = 0$

㉗ $1 \times 4 = \boxed{4}$

㉘ $\boxed{1} \times 2 = 2$

㉙ $3 \times \boxed{3} = 9$

㉚ $5 \times 0 = \boxed{0}$

DIVISION

$\boxed{2} \times 3 = 6$ $6 \div 3 = \boxed{2}$

Copy and complete each equation.

1a $\boxed{2} \times 4 = 8$

1b $8 \div 4 = \boxed{2}$

1c $\boxed{4} \times 2 = 8$

1d $8 \div 2 = \boxed{4}$

2a $\boxed{2} \times 5 = 10$

2b $10 \div 5 = \boxed{2}$

2c $\boxed{5} \times 2 = 10$

2d $10 \div 2 = \boxed{5}$

3a $\boxed{4} \times 3 = 12$

3b $12 \div 3 = \boxed{4}$

3c $\boxed{3} \times 4 = 12$

3d $12 \div 4 = \boxed{3}$

4a $\boxed{3} \times 5 = 15$

4b $15 \div 5 = \boxed{3}$

4c $\boxed{5} \times 3 = 15$

4d $15 \div 3 = \boxed{5}$

The operation of division is used to find the missing factor.

$$\begin{array}{r} 2 \\ +\,2 \\ \hline 4 \end{array} \nearrow \begin{array}{r} 4 \\ +\,2 \\ \hline 6 \end{array} \nearrow \begin{array}{r} 6 \\ +\,2 \\ \hline 8 \end{array}$$

$\boxed{4} \times 2 = 8$

$$\begin{array}{r} 8 \\ -\,2 \\ \hline 6 \end{array} \nearrow \begin{array}{r} 6 \\ -\,2 \\ \hline 4 \end{array} \nearrow \begin{array}{r} 4 \\ -\,2 \\ \hline 2 \end{array} \nearrow \begin{array}{r} 2 \\ -\,2 \\ \hline 0 \end{array}$$

$8 \div 2 = \boxed{4}$

Use repeated subtraction to find the missing factor.

① $10 \div 2 = \boxed{5}$

③ $15 \div 3 = \boxed{5}$

② $25 \div 5 = \boxed{5}$

④ $20 \div 4 = \boxed{5}$

We can think of division as repeated subtraction.

Copy each problem and write the correct sign, × or ÷, in each △.

⑤ $4 \overset{\div}{\triangle} 2 = 2$

⑥ $4 \overset{\times}{\triangle} 2 = 8$

⑦ $8 \overset{\div}{\triangle} 4 = 6 \div 3$

⑧ $8 \overset{\div}{\triangle} 2 = 4 \times 1$

⑨ $3 \overset{\times}{\triangle} 2 = 2 \times 3$

⑩ $3 \times 1 = 6 \overset{\div}{\triangle} 2$

⑪ $6 \overset{\div}{\triangle} 2 = 1 \times 3$

⑫ $9 \overset{\div}{\triangle} 3 = 15 \div 5$

Copy and complete each equation.

① $15 \div 5 = \boxed{3}$

② $12 \div 3 = \boxed{4}$

③ $16 \div 4 = \boxed{4}$

④ $8 \div 2 = \boxed{4}$

⑤ $9 \div 3 = \boxed{3}$

⑥ $20 \div 5 = \boxed{4}$

⑦ $25 \div 5 = \boxed{5}$

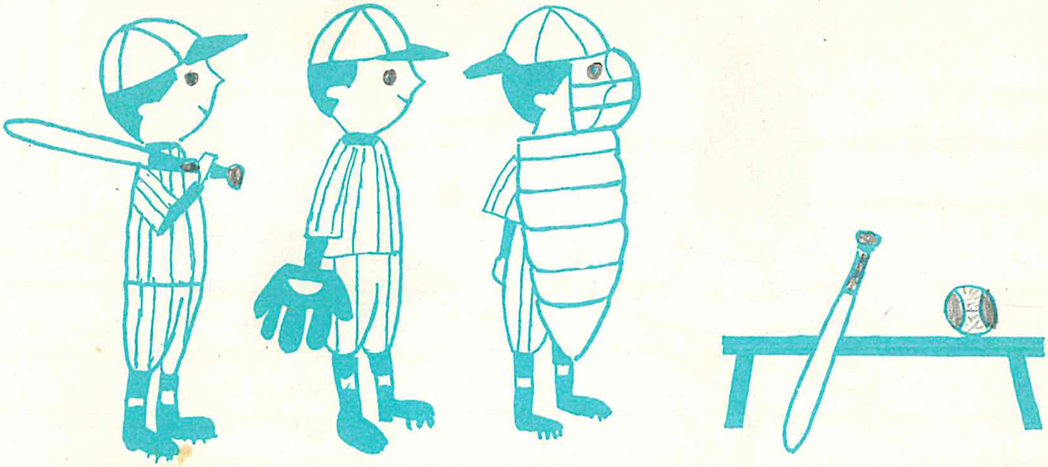
⑧ $20 \div 4 = \boxed{5}$

Find the quotients.

$8 \div 4 = 2$	$\begin{array}{r}2\\4\overline{)8}\end{array}$	$20 \div 5 = 4$	$\begin{array}{r}4\\5\overline{)20}\end{array}$

	A	B	C	D
⑨	$\begin{array}{r}4\\2\overline{)8}\end{array}$	$\begin{array}{r}1\\3\overline{)3}\end{array}$	$\begin{array}{r}3\\5\overline{)15}\end{array}$	$\begin{array}{r}3\\2\overline{)6}\end{array}$
⑩	$\begin{array}{r}1\\2\overline{)2}\end{array}$	$\begin{array}{r}4\\3\overline{)12}\end{array}$	$\begin{array}{r}3\\3\overline{)9}\end{array}$	$\begin{array}{r}1\\4\overline{)4}\end{array}$
⑪	$\begin{array}{r}2\\2\overline{)4}\end{array}$	$\begin{array}{r}5\\1\overline{)5}\end{array}$	$\begin{array}{r}4\\4\overline{)16}\end{array}$	$\begin{array}{r}2\\4\overline{)8}\end{array}$
⑫	$\begin{array}{r}5\\3\overline{)15}\end{array}$	$\begin{array}{r}5\\5\overline{)25}\end{array}$	$\begin{array}{r}1\\5\overline{)5}\end{array}$	$\begin{array}{r}3\\4\overline{)12}\end{array}$
⑬	$\begin{array}{r}5\\4\overline{)20}\end{array}$	$\begin{array}{r}2\\3\overline{)6}\end{array}$	$\begin{array}{r}2\\5\overline{)10}\end{array}$	$\begin{array}{r}5\\2\overline{)10}\end{array}$

STORY PROBLEMS



PLAYTIME

Work the story problems.

1. During playtime some of the third-grade boys had a ball game. Four boys on Tim's team each hit 5 home runs. Three boys on Joe's team each hit 4 home runs. Tim's team hit 20 home runs. Joe's team hit 12 home runs.
2. Bob hit 2 home runs. Each time there were 2 other boys on base. Bob helped his team score 6 runs.
3. In each of the 4 innings of the game, 2 boys made two-base hits. 8 doubles were hit.

(Note: "Eight" can also be accepted as a word.)

4. The pitcher on Joe's team walked 2 boys during each of the last 3 innings. He walked 6 boys.
5. The pitcher on Tim's team walked 5 boys during each of the last 2 innings. He walked 10 boys.

Work the story problems.

1. The third-grade girls found a box of 25 jacks. They counted out 5 sets of jacks with the same number in each set. In each set there were 5 jacks.

2. Janet picked up 2 jacks each time she bounced the ball. She bounced the ball 4 times to pick up 8 jacks.

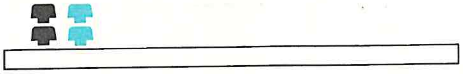
3. Sally picked up 3 jacks each time she bounced the ball. To pick up 9 jacks, she bounced the ball 3 times.

4. Alice picked up 4 jacks in each of 3 games. She picked up 12 jacks.

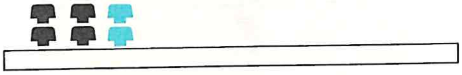
5. Molly bounced the ball 6 times and picked up 12 jacks. She got the same number of jacks each time. Molly picked up 2 jacks on each bounce.

MULTIPLICATION

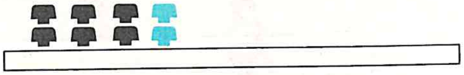
Copy and complete each equation.



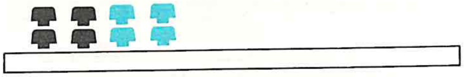
①
$$\begin{aligned} 2 \times 2 &= (1 + 1) \times 2 \\ &= (1 \times 2) + (1 \times 2) \\ &= \underline{\ 2\ } + \underline{\ 2\ } \\ &= \underline{\ 4\ } \end{aligned}$$



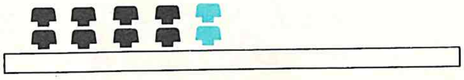
②
$$\begin{aligned} 3 \times 2 &= (2 + 1) \times 2 \\ &= (2 \times 2) + (1 \times 2) \\ &= \underline{\ 4\ } + \underline{\ 2\ } \\ &= \underline{\ 6\ } \end{aligned}$$



③
$$\begin{aligned} 4 \times 2 &= (3 + 1) \times 2 \\ &= (3 \times 2) + (1 \times 2) \\ &= \underline{\ 6\ } + \underline{\ 2\ } \\ &= \underline{\ 8\ } \end{aligned}$$



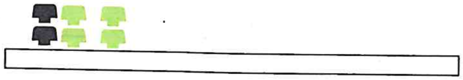
④
$$\begin{aligned} 4 \times 2 &= (2 + 2) \times 2 \\ &= (2 \times 2) + (2 \times 2) \\ &= \underline{\ 4\ } + \underline{\ 4\ } \\ &= \underline{\ 8\ } \end{aligned}$$



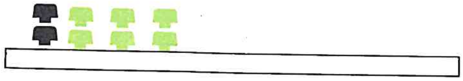
⑤
$$\begin{aligned} 5 \times 2 &= (4 + 1) \times 2 \\ &= (4 \times 2) + (1 \times 2) \\ &= \underline{\ 8\ } + \underline{\ 2\ } \\ &= \underline{\ 10\ } \end{aligned}$$

Multiplication is distributive over addition.

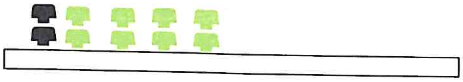
Copy and complete each equation.



① $3 \times 2 = (1 + 2) \times 2$
$= (1 \times 2) + (2 \times 2)$
$= \underline{2} + \underline{4}$
$= \underline{6}$



② $4 \times 2 = (1 + 3) \times 2$
$= (1 \times 2) + (3 \times 2)$
$= \underline{2} + \underline{6}$
$= \underline{8}$



③ $5 \times 2 = (1 + 4) \times 2$
$= (1 \times 2) + (4 \times 2)$
$= \underline{2} + \underline{8}$
$= \underline{10}$

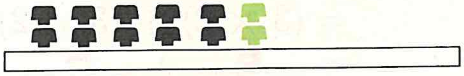
④ $3 \times 2 = (2 + 1) \times 2$
$= (2 \times 2) + (1 \times 2)$
$= \underline{4} + \underline{2}$
$= \underline{6}$

⑤ $5 \times 2 = (2 + 3) \times 2$
$= (2 \times 2) + (\underline{3} \times 2)$
$= \underline{4} + \underline{6}$
$= \underline{10}$

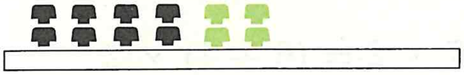
⑥ $4 \times 2 = (3 + 1) \times 2$
$= (3 \times 2) + (1 \times 2)$
$= \underline{6} + \underline{2}$
$= \underline{8}$

⑦ $5 \times 2 = (1 + 4) \times 2$
$= (\underline{1} \times 2) + (4 \times 2)$
$= \underline{2} + \underline{8}$
$= \underline{10}$

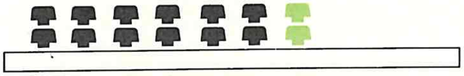
Copy and complete each equation.



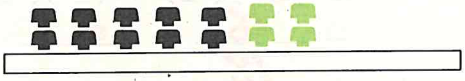
① $6 \times 2 = (5 + 1) \times 2$
$= (5 \times 2) + (1 \times 2)$
$= \underline{10} + \underline{2}$
$= \underline{12}$



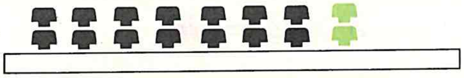
② $6 \times 2 = (4 + 2) \times 2$
$= (4 \times 2) + (2 \times 2)$
$= \underline{8} + \underline{4}$
$= \underline{12}$



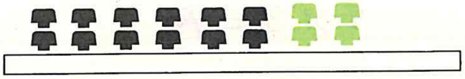
③ $7 \times 2 = (6 + 1) \times 2$
$= (6 \times 2) + (1 \times 2)$
$= \underline{12} + \underline{2}$
$= \underline{14}$



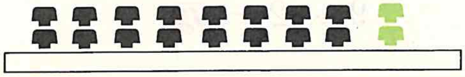
④ $7 \times 2 = (5 + 2) \times 2$
$= (5 \times 2) + (\underline{2} \times 2)$
$= \underline{10} + \underline{4}$
$= \underline{14}$



⑤ $8 \times 2 = (7 + 1) \times 2$
$= (\underline{7} \times 2) + (1 \times 2)$
$= \underline{14} + \underline{2}$
$= \underline{16}$

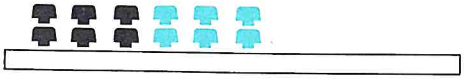


⑥ $8 \times 2 = (6 + 2) \times 2$
$= (\underline{6} \times 2) + (2 \times 2)$
$= \underline{12} + \underline{4}$
$= \underline{16}$



⑦ $9 \times 2 = (8 + 1) \times 2$
$= (\underline{8} \times 2) + (1 \times 2)$
$= \underline{16} + \underline{2}$
$= \underline{18}$

Copy and complete each equation.



①
$$\begin{aligned} 6 \times 2 &= (3 + 3) \times 2 \\ &= (3 \times 2) + (3 \times 2) \\ &= \underline{6} + \underline{6} \\ &= \underline{12} \end{aligned}$$

②
$$\begin{aligned} 6 \times 2 &= (5 + 1) \times 2 \\ &= (5 \times 2) + (1 \times 2) \\ &= \underline{10} + \underline{2} \\ &= \underline{12} \end{aligned}$$

③
$$\begin{aligned} 7 \times 2 &= (6 + 1) \times 2 \\ &= (6 \times 2) + (1 \times 2) \\ &= \underline{12} + \underline{2} \\ &= \underline{14} \end{aligned}$$

④
$$\begin{aligned} 8 \times 2 &= (7 + 1) \times 2 \\ &= (7 \times 2) + (\underline{1} \times 2) \\ &= \underline{14} + \underline{2} \\ &= \underline{16} \end{aligned}$$

⑤
$$\begin{aligned} 9 \times 2 &= (8 + 1) \times 2 \\ &= (\underline{8} \times 2) + (1 \times 2) \\ &= \underline{16} + \underline{2} \\ &= \underline{18} \end{aligned}$$

⑥ $0 \times 2 = \boxed{0}$

⑦ $1 \times 2 = \boxed{2}$

⑧ $2 \times 2 = \boxed{4}$

⑨ $3 \times 2 = \boxed{6}$

⑩ $4 \times 2 = \boxed{8}$

⑪ $5 \times 2 = \boxed{10}$

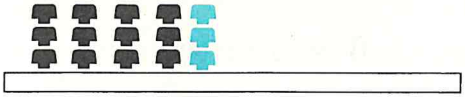
⑫ $6 \times 2 = \boxed{12}$

⑬ $7 \times 2 = \boxed{14}$

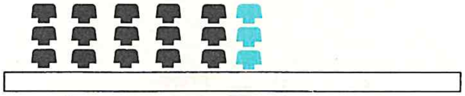
⑭ $8 \times 2 = \boxed{16}$

⑮ $9 \times 2 = \boxed{18}$

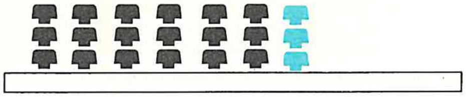
Copy and complete each equation.



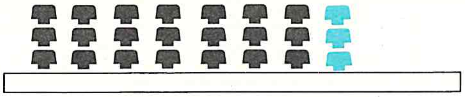
①
$$\begin{aligned} 5 \times 3 &= (4 + 1) \times 3 \\ &= (4 \times 3) + (1 \times 3) \\ &= \underline{12} + \underline{3} \\ &= \underline{15} \end{aligned}$$



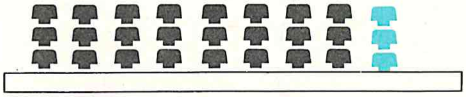
②
$$\begin{aligned} 6 \times 3 &= (5 + 1) \times 3 \\ &= (5 \times 3) + (\underline{1} \times 3) \\ &= \underline{15} + \underline{3} \\ &= \underline{18} \end{aligned}$$



③
$$\begin{aligned} 7 \times 3 &= (6 + 1) \times 3 \\ &= (\underline{6} \times 3) + (1 \times 3) \\ &= \underline{18} + \underline{3} \\ &= \underline{21} \end{aligned}$$



④
$$\begin{aligned} 8 \times 3 &= (7 + 1) \times 3 \\ &= (7 \times 3) + (\underline{1} \times 3) \\ &= \underline{21} + \underline{3} \\ &= \underline{24} \end{aligned}$$



⑤
$$\begin{aligned} 9 \times 3 &= (8 + 1) \times 3 \\ &= (\underline{8} \times 3) + (1 \times 3) \\ &= \underline{24} + \underline{3} \\ &= \underline{27} \end{aligned}$$

Copy and complete each equation.

① $0 \times 3 = \boxed{0}$

② $1 \times 3 = \boxed{3}$

③ $2 \times 3 = \boxed{6}$

④ $3 \times 3 = \boxed{9}$

⑤ $4 \times 3 = \boxed{12}$

⑥ $5 \times 3 = \boxed{15}$

⑦ $6 \times 3 = \boxed{18}$

⑧ $7 \times 3 = \boxed{21}$

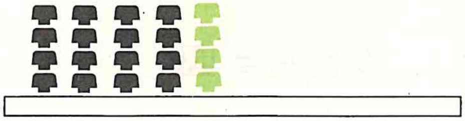
⑨ $8 \times 3 = \boxed{24}$

⑩ $9 \times 3 = \boxed{27}$

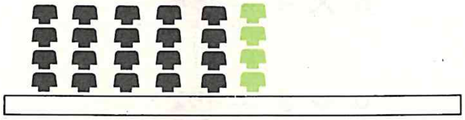
Find the products.

	A	B	C	D	E
⑪	$\begin{array}{r} 3 \\ \times\ 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 2 \\ \times\ 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times\ 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 3 \\ \times\ 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 2 \\ \times\ 4 \\ \hline 8 \end{array}$
⑫	$\begin{array}{r} 3 \\ \times\ 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ \times\ 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times\ 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 2 \\ \times\ 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 3 \\ \times\ 0 \\ \hline 0 \end{array}$
⑬	$\begin{array}{r} 3 \\ \times\ 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 2 \\ \times\ 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times\ 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ \times\ 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ \times\ 7 \\ \hline 14 \end{array}$

Copy and complete each equation.

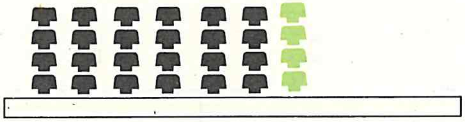


① $5 \times 4 = (4 + 1) \times 4$
$= (4 \times 4) + (1 \times 4)$
$= \underline{16} + \underline{4}$
$= \underline{20}$

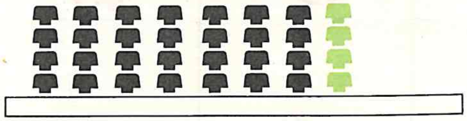


24 6 24

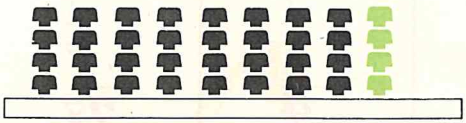
② $6 \times 4 = (5 + 1) \times 4$
$= (5 \times 4) + (\underline{1} \times 4)$
$= \underline{20} + \underline{4}$
$= \underline{24}$



③ $7 \times 4 = (6 + 1) \times 4$
$= (\underline{6} \times 4) + (1 \times 4)$
$= \underline{24} + \underline{4}$
$= \underline{28}$



④ $8 \times 4 = (7 + 1) \times 4$
$= (7 \times 4) + (\underline{1} \times 4)$
$= \underline{28} + \underline{4}$
$= \underline{32}$



⑤ $9 \times 4 = (8 + 1) \times 4$
$= (\underline{8} \times 4) + (1 \times 4)$
$= \underline{32} + \underline{4}$
$= \underline{36}$

Copy and complete each equation.

① $0 \times 4 = \boxed{0}$

② $1 \times 4 = \boxed{4}$

③ $2 \times 4 = \boxed{8}$

④ $3 \times 4 = \boxed{12}$

⑤ $4 \times 4 = \boxed{16}$

⑥ $5 \times 4 = \boxed{20}$

⑦ $6 \times 4 = \boxed{24}$

⑧ $7 \times 4 = \boxed{28}$

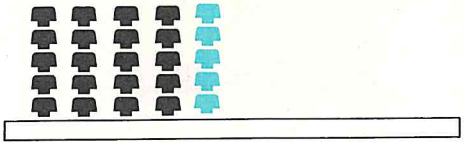
⑨ $8 \times 4 = \boxed{32}$

⑩ $9 \times 4 = \boxed{36}$

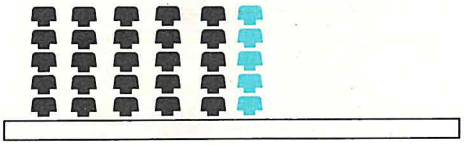
Find the products.

	A	B	C	D	E
⑪	$\begin{array}{r}4\\ \times\ 3\\ \hline 12\end{array}$	$\begin{array}{r}3\\ \times\ 9\\ \hline 27\end{array}$	$\begin{array}{r}2\\ \times\ 8\\ \hline 16\end{array}$	$\begin{array}{r}4\\ \times\ 4\\ \hline 16\end{array}$	$\begin{array}{r}3\\ \times\ 8\\ \hline 24\end{array}$
⑫	$\begin{array}{r}4\\ \times\ 5\\ \hline 20\end{array}$	$\begin{array}{r}3\\ \times\ 6\\ \hline 18\end{array}$	$\begin{array}{r}4\\ \times\ 9\\ \hline 36\end{array}$	$\begin{array}{r}2\\ \times\ 7\\ \hline 14\end{array}$	$\begin{array}{r}4\\ \times\ 0\\ \hline 0\end{array}$
⑬	$\begin{array}{r}4\\ \times\ 8\\ \hline 32\end{array}$	$\begin{array}{r}4\\ \times\ 2\\ \hline 8\end{array}$	$\begin{array}{r}4\\ \times\ 6\\ \hline 24\end{array}$	$\begin{array}{r}4\\ \times\ 1\\ \hline 4\end{array}$	$\begin{array}{r}4\\ \times\ 7\\ \hline 28\end{array}$

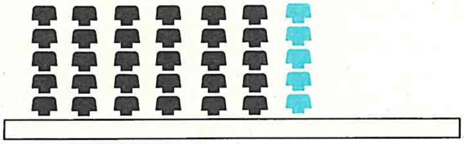
Copy and complete each equation.



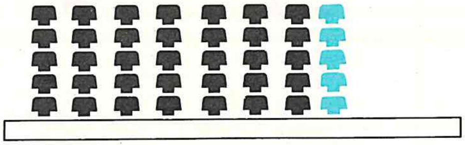
①
$$\begin{aligned} 5 \times 5 &= (4 + 1) \times 5 \\ &= (4 \times 5) + (1 \times 5) \\ &= \underline{20} + \underline{5} \\ &= \underline{25} \end{aligned}$$



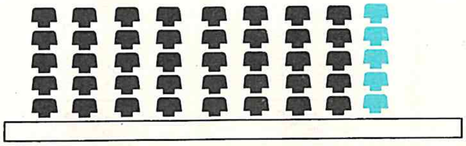
②
$$\begin{aligned} 6 \times 5 &= (5 + 1) \times 5 \\ &= (\underline{5} \times 5) + (1 \times 5) \\ &= \underline{25} + \underline{5} \\ &= \underline{30} \end{aligned}$$



③
$$\begin{aligned} 7 \times 5 &= (6 + 1) \times 5 \\ &= (6 \times 5) + (\underline{1} \times 5) \\ &= \underline{30} + \underline{5} \\ &= \underline{35} \end{aligned}$$



④
$$\begin{aligned} 8 \times 5 &= (7 + 1) \times 5 \\ &= (\underline{7} \times 5) + (1 \times 5) \\ &= \underline{35} + \underline{5} \\ &= \underline{40} \end{aligned}$$



⑤
$$\begin{aligned} 9 \times 5 &= (8 + 1) \times 5 \\ &= (8 \times 5) + (\underline{1} \times 5) \\ &= \underline{40} + \underline{5} \\ &= \underline{45} \end{aligned}$$

Copy and complete each equation.

① $0 \times 5 = \boxed{0}$

② $1 \times 5 = \boxed{5}$

③ $2 \times 5 = \boxed{10}$

④ $3 \times 5 = \boxed{15}$

⑤ $4 \times 5 = \boxed{20}$

⑥ $5 \times 5 = \boxed{25}$

⑦ $6 \times 5 = \blacksquare\ 30$

⑧ $7 \times 5 = \boxed{35}$

⑨ $8 \times 5 = \boxed{40}$

⑩ $9 \times 5 = \boxed{45}$

Find the products.

	A	B	C	D	E
⑪	5 × 9 45	4 × 8 32	5 × 4 20	3 × 9 27	5 × 0 0
⑫	5 × 1 5	3 × 5 15	4 × 9 36	5 × 2 10	5 × 8 40
⑬	5 × 6 30	5 × 3 15	4 × 7 28	5 × 7 35	5 × 5 25

Copy and complete each equation.

① $0 \times 0 = \boxed{0}$
② $1 \times 0 = \boxed{0}$
③ $2 \times 0 = \boxed{0}$
④ $3 \times 0 = \boxed{0}$
⑤ $4 \times 0 = \boxed{0}$
⑥ $5 \times 0 = \boxed{0}$
⑦ $6 \times 0 = \boxed{0}$
⑧ $7 \times 0 = \boxed{0}$
⑨ $8 \times 0 = \boxed{0}$
⑩ $9 \times 0 = \boxed{0}$

⑪ $0 \times 1 = \boxed{0}$
⑫ $1 \times 1 = \boxed{1}$
⑬ $2 \times 1 = \boxed{2}$
⑭ $3 \times 1 = \boxed{3}$
⑮ $4 \times 1 = \boxed{4}$
⑯ $5 \times 1 = \boxed{5}$
⑰ $6 \times 1 = \boxed{6}$
⑱ $7 \times 1 = \boxed{7}$
⑲ $8 \times 1 = \boxed{8}$
⑳ $9 \times 1 = \boxed{9}$

㉑ $0 \times 2 = \boxed{0}$
㉒ $1 \times 2 = \boxed{2}$
㉓ $2 \times 2 = \boxed{4}$
㉔ $3 \times 2 = \boxed{6}$
㉕ $4 \times 2 = \boxed{8}$
㉖ $5 \times 2 = \boxed{10}$
㉗ $6 \times 2 = \boxed{12}$
㉘ $7 \times 2 = \boxed{14}$
㉙ $8 \times 2 = \boxed{16}$
㉚ $9 \times 2 = \boxed{18}$

Copy and complete each equation.

① $0 \times 3 = \boxed{0}$

② $1 \times 3 = \boxed{3}$

③ $2 \times 3 = \boxed{6}$

④ $3 \times 3 = \boxed{9}$

⑤ $4 \times 3 = \boxed{12}$

⑥ $5 \times 3 = \boxed{15}$

⑦ $6 \times 3 = \boxed{18}$

⑧ $7 \times 3 = \boxed{21}$

⑨ $8 \times 3 = \boxed{24}$

⑩ $9 \times 3 = \boxed{27}$

⑪ $0 \times 4 = \boxed{0}$

⑫ $1 \times 4 = \boxed{4}$

⑬ $2 \times 4 = \boxed{8}$

⑭ $3 \times 4 = \boxed{12}$

⑮ $4 \times 4 = \boxed{16}$

⑯ $5 \times 4 = \boxed{20}$

⑰ $6 \times 4 = \boxed{24}$

⑱ $7 \times 4 = \boxed{28}$

⑲ $8 \times 4 = \boxed{32}$

⑳ $9 \times 4 = \boxed{36}$

㉑ $0 \times 5 = \boxed{0}$

㉒ $1 \times 5 = \boxed{5}$

㉓ $2 \times 5 = \boxed{10}$

㉔ $3 \times 5 = \boxed{15}$

㉕ $4 \times 5 = \boxed{20}$

㉖ $5 \times 5 = \boxed{25}$

㉗ $6 \times 5 = \boxed{30}$

㉘ $7 \times 5 = \boxed{35}$

㉙ $8 \times 5 = \boxed{40}$

㉚ $9 \times 5 = \boxed{45}$

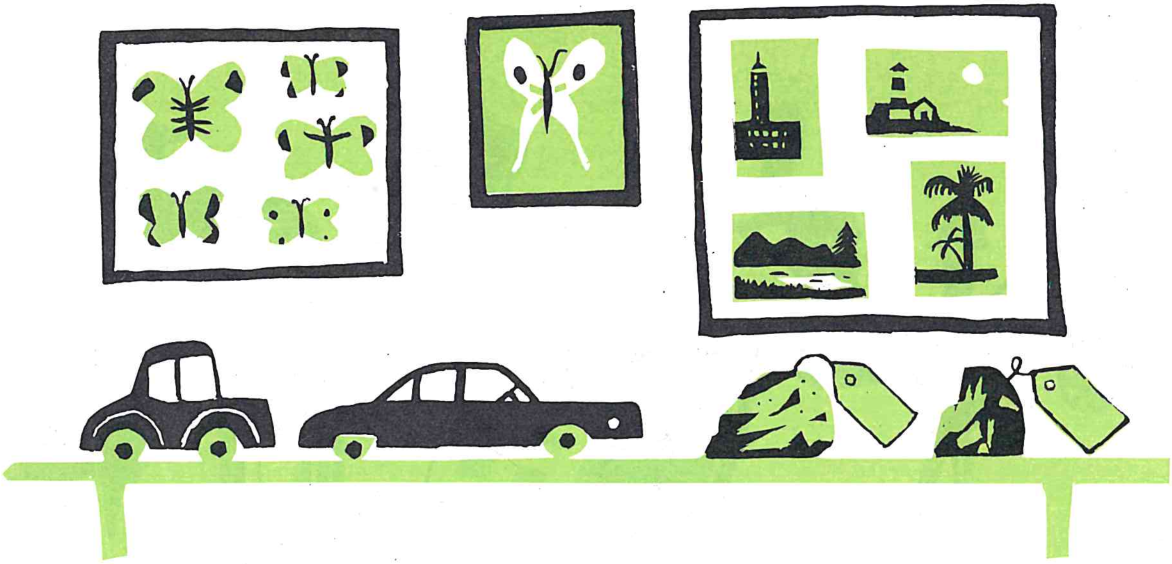
STORY PROBLEMS

HOBBIES

Work the story problems.

1. All of the children in the third grade had hobbies. Baseball cards were collected by 7 of the boys and 1 of the girls. Each of these children planned to bring 4 cards to show the class. They would bring 32 cards.
2. Three girls and 4 boys collected stamps. They each planned to bring 2 stamp books to show their friends. They would bring 14 stamp books.
3. Tom collected coins. He would bring 3 cards of nickels and 6 cards of pennies to class. Each card had 5 coins mounted on it. Tom planned to bring 45 coins.
4. Four of the boys collected toy soldiers and 2 of the girls collected toy animals. Each of these children planned to bring 3 toys for a hobby table.
   18 toys would be shown.

Note: "Eighteen" can also be accepted as a word.



Work the story problems.

1. The children decided to have a hobby show. Five of the boys and 2 of the girls set up a special display of model cars. Each of these children brought 4 models. There were 28 models in the display.

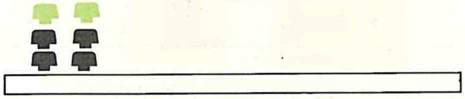
2. Mary had 5 pieces of blue paper and 4 pieces of red paper. On each of these pieces of paper she pasted 3 postcards. She brought these 27 postcards to the hobby show.

3. Two girls and 6 boys had rock collections. Each of these children brought 5 rocks for the show. The visitors would see 40 rocks.

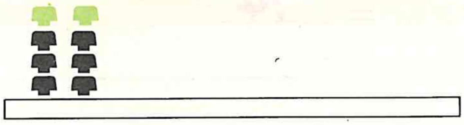
4. Three boys and 3 girls collected butterflies. They each brought 2 cards holding their finest butterflies. Their 12 cards were in the display.

MULTIPLICATION

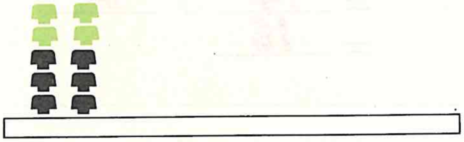
Copy and complete each equation.



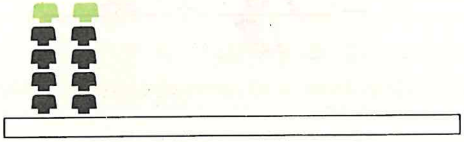
①
$$\begin{aligned} 2 \times 3 &= 2 \times (2 + 1) \\ &= (2 \times 2) + (2 \times 1) \\ &= \underline{4} + \underline{2} \\ &= \underline{6} \end{aligned}$$



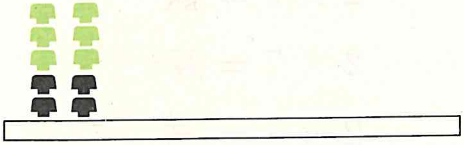
②
$$\begin{aligned} 2 \times 4 &= 2 \times (3 + 1) \\ &= (2 \times 3) + (2 \times 1) \\ &= \underline{6} + \underline{2} \\ &= \underline{8} \end{aligned}$$



③
$$\begin{aligned} 2 \times 5 &= 2 \times (3 + 2) \\ &= (2 \times 3) + (2 \times 2) \\ &= \underline{6} + \underline{4} \\ &= \underline{10} \end{aligned}$$



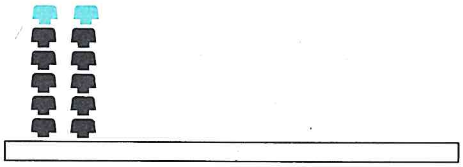
④
$$\begin{aligned} 2 \times 5 &= 2 \times (4 + 1) \\ &= (2 \times 4) + (2 \times 1) \\ &= \underline{8} + \underline{2} \\ &= \underline{10} \end{aligned}$$



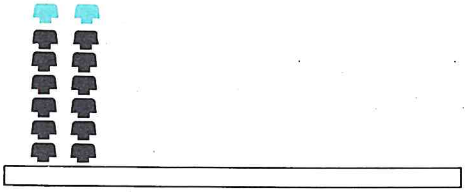
⑤
$$\begin{aligned} 2 \times 5 &= 2 \times (2 + 3) \\ &= (2 \times 2) + (2 \times 3) \\ &= \underline{4} + \underline{6} \\ &= \underline{10} \end{aligned}$$

The distributive property of multiplication over addition has two forms.

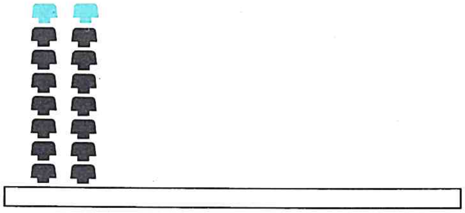
Copy and complete each equation.



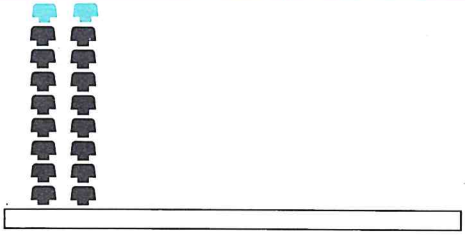
① $2 \times 6 = 2 \times (5 + 1)$
$= (2 \times 5) + (2 \times 1)$
$= \underline{10} + \underline{2}$
$= \underline{12}$



② $2 \times 7 = 2 \times (6 + 1)$
$= (2 \times 6) + (2 \times 1)$
$= \underline{12} + \underline{2}$
$= \underline{14}$



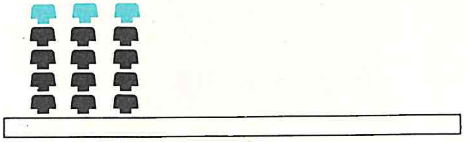
③ $2 \times 8 = 2 \times (7 + 1)$
$= (2 \times 7) + (2 \times \underline{1})$
$= \underline{14} + \underline{2}$
$= \underline{16}$



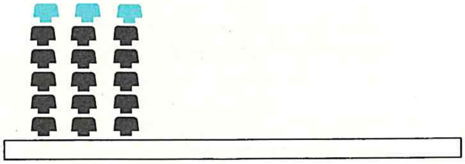
④ $2 \times 9 = 2 \times (8 + 1)$
$= (2 \times \underline{8}) + (2 \times 1)$
$= \underline{16} + \underline{2}$
$= \underline{18}$

⑤ $2 \times 0 = \boxed{0}$
⑥ $2 \times 1 = \boxed{2}$
⑦ $2 \times 2 = \boxed{4}$
⑧ $2 \times 3 = \boxed{6}$
⑨ $2 \times 4 = \boxed{8}$
⑩ $2 \times 5 = \boxed{10}$
⑪ $2 \times 6 = \boxed{12}$
⑫ $2 \times 7 = \boxed{14}$
⑬ $2 \times 8 = \boxed{16}$
⑭ $2 \times 9 = \boxed{18}$

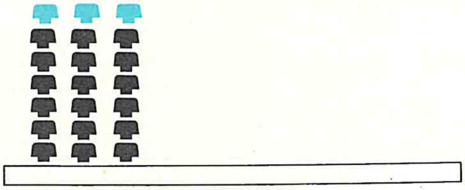
Copy and complete each equation.



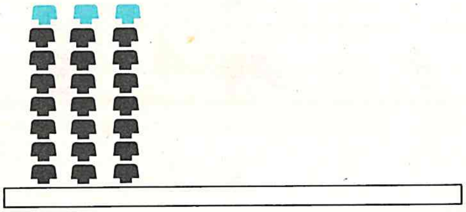
①
$$\begin{aligned} 3 \times 5 &= 3 \times (4 + 1) \\ &= (3 \times 4) + (3 \times 1) \\ &= \underline{12} + \underline{3} \\ &= \underline{15} \end{aligned}$$



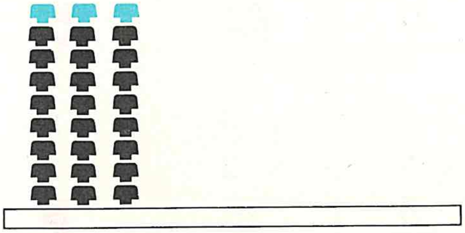
②
$$\begin{aligned} 3 \times 6 &= 3 \times (5 + 1) \\ &= (3 \times 5) + (3 \times \underline{1}) \\ &= \underline{15} + \underline{3} \\ &= \underline{18} \end{aligned}$$



③
$$\begin{aligned} 3 \times 7 &= 3 \times (6 + 1) \\ &= (3 \times \underline{6}) + (3 \times 1) \\ &= \underline{18} + \underline{3} \\ &= \underline{21} \end{aligned}$$



④
$$\begin{aligned} 3 \times 8 &= 3 \times (7 + 1) \\ &= (3 \times 7) + (3 \times \underline{1}) \\ &= \underline{21} + \underline{3} \\ &= \underline{24} \end{aligned}$$



⑤
$$\begin{aligned} 3 \times 9 &= 3 \times (8 + 1) \\ &= (3 \times \underline{8}) + (3 \times 1) \\ &= \underline{24} + \underline{3} \\ &= \underline{27} \end{aligned}$$

Copy and complete each equation.

① $3 \times 0 = \boxed{0}$

② $3 \times 1 = \boxed{3}$

③ $3 \times 2 = \boxed{6}$

④ $3 \times 3 = \boxed{9}$

⑤ $3 \times 4 = \boxed{12}$

⑥ $3 \times 5 = \boxed{15}$

⑦ $3 \times 6 = \boxed{18}$

⑧ $3 \times 7 = \boxed{21}$

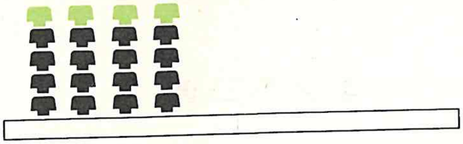
⑨ $3 \times 8 = \boxed{24}$

⑩ $3 \times 9 = \boxed{27}$

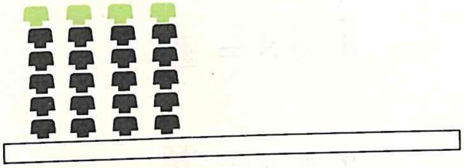
Find the products.

	A	B	C	D	E	F
⑪	9 × 3 27	7 × 3 21	6 × 2 12	4 × 2 8	8 × 3 24	1 × 3 3
⑫	3 × 2 6	8 × 2 16	5 × 3 15	0 × 3 0	4 × 3 12	9 × 2 18
⑬	7 × 2 14	2 × 3 6	6 × 3 18	1 × 2 2	5 × 2 10	3 × 3 9

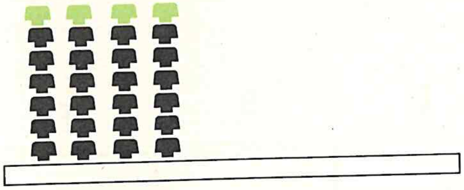
Copy and complete each equation.



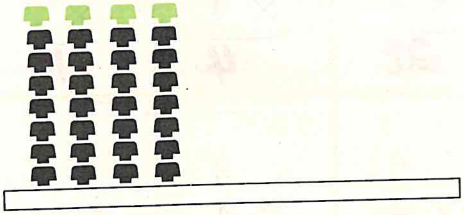
①
$$\begin{aligned} 4 \times 5 &= 4 \times (4 + 1) \\ &= (4 \times 4) + (4 \times 1) \\ &= \underline{16} + \underline{4} \\ &= \underline{20} \end{aligned}$$



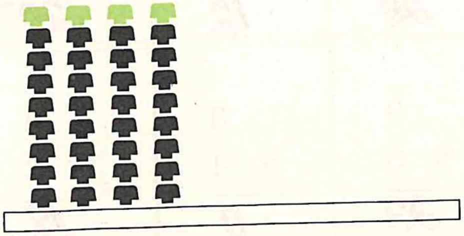
②
$$\begin{aligned} 4 \times 6 &= 4 \times (5 + 1) \\ &= (4 \times \underline{5}) + (4 \times 1) \\ &= \underline{20} + \underline{4} \\ &= \underline{24} \end{aligned}$$



③
$$\begin{aligned} 4 \times 7 &= 4 \times (6 + 1) \\ &= (4 \times 6) + (4 \times \underline{1}) \\ &= \underline{24} + \underline{4} \\ &= \underline{28} \end{aligned}$$



④
$$\begin{aligned} 4 \times 8 &= 4 \times (7 + 1) \\ &= (4 \times \underline{7}) + (4 \times 1) \\ &= \underline{28} + \underline{4} \\ &= \underline{32} \end{aligned}$$



⑤
$$\begin{aligned} 4 \times 9 &= 4 \times (8 + 1) \\ &= (4 \times 8) + (4 \times \underline{1}) \\ &= \underline{32} + \underline{4} \\ &= \underline{36} \end{aligned}$$

Copy and complete each equation.

① $4 \times 0 = \boxed{0}$

② $4 \times 1 = \boxed{4}$

③ $4 \times 2 = \boxed{8}$

④ $4 \times 3 = \boxed{12}$

⑤ $4 \times 4 = \boxed{16}$

⑥ $4 \times 5 = \boxed{20}$

⑦ $4 \times 6 = \boxed{24}$

⑧ $4 \times 7 = \boxed{28}$

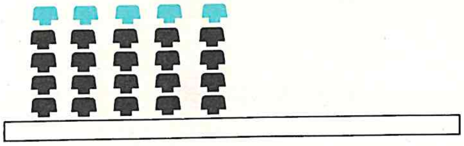
⑨ $4 \times 8 = \boxed{32}$

⑩ $4 \times 9 = \boxed{36}$

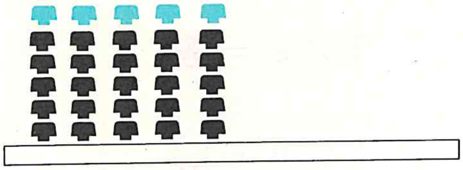
Find the products.

	A	B	C	D	E	F
⑪	9 × 4 36	6 × 3 18	8 × 2 16	7 × 4 28	1 × 4 4	7 × 2 14
⑫	4 × 4 16	8 × 3 24	2 × 4 8	6 × 4 24	3 × 4 12	5 × 4 20
⑬	8 × 4 32	7 × 3 21	4 × 3 12	9 × 3 27	0 × 4 0	9 × 2 18

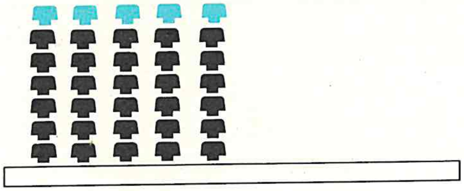
Copy and complete each equation.



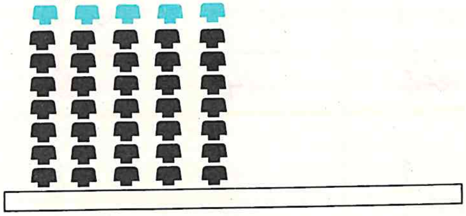
①
$$\begin{aligned} 5 \times 5 &= 5 \times (4 + 1) \\ &= (5 \times 4) + (5 \times 1) \\ &= \underline{20} + \underline{5} \\ &= \underline{25} \end{aligned}$$



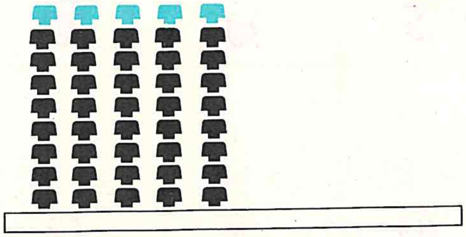
②
$$\begin{aligned} 5 \times 6 &= 5 \times (5 + 1) \\ &= (5 \times \underline{5}) + (5 \times 1) \\ &= \underline{25} + \underline{5} \\ &= \underline{30} \end{aligned}$$



③
$$\begin{aligned} 5 \times 7 &= 5 \times (6 + 1) \\ &= (5 \times 6) + (5 \times \underline{1}) \\ &= \underline{30} + \underline{5} \\ &= \underline{35} \end{aligned}$$



④
$$\begin{aligned} 5 \times 8 &= 5 \times (7 + 1) \\ &= (5 \times \underline{7}) + (5 \times 1) \\ &= \underline{35} + \underline{5} \\ &= \underline{40} \end{aligned}$$



⑤
$$\begin{aligned} 5 \times 9 &= 5 \times (8 + 1) \\ &= (5 \times 8) + (5 \times \underline{1}) \\ &= \underline{40} + \underline{5} \\ &= \underline{45} \end{aligned}$$

Copy and complete each equation.

① $5 \times 0 = \boxed{0}$

② $5 \times 1 = \boxed{5}$

③ $5 \times 2 = \boxed{10}$

④ $5 \times 3 = \boxed{15}$

⑤ $5 \times 4 = \boxed{20}$

⑥ $5 \times 5 = \boxed{25}$

⑦ $5 \times 6 = \boxed{30}$

⑧ $5 \times 7 = \boxed{35}$

⑨ $5 \times 8 = \boxed{40}$

⑩ $5 \times 9 = \boxed{45}$

Find the products.

	A	B	C	D	E	F
⑪	$\begin{array}{r} 7 \\ \times\ 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 4 \\ \times\ 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ \times\ 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ \times\ 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ \times\ 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 2 \\ \times\ 5 \\ \hline 10 \end{array}$
⑫	$\begin{array}{r} 0 \\ \times\ 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 9 \\ \times\ 4 \\ \hline 36 \end{array}$	$\begin{array}{r} 8 \\ \times\ 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 1 \\ \times\ 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 6 \\ \times\ 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 8 \\ \times\ 4 \\ \hline 32 \end{array}$
⑬	$\begin{array}{r} 3 \\ \times\ 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 5 \\ \times\ 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 9 \\ \times\ 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 7 \\ \times\ 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 5 \\ \times\ 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 9 \\ \times\ 2 \\ \hline 18 \end{array}$

Copy and complete each equation.

① $0 \times 0 = \boxed{0}$

② $0 \times 1 = \boxed{0}$

③ $0 \times 2 = \boxed{0}$

④ $0 \times 3 = \boxed{0}$

⑤ $0 \times 4 = \boxed{0}$

⑥ $0 \times 5 = \boxed{0}$

⑦ $0 \times 6 = \boxed{0}$

⑧ $0 \times 7 = \boxed{0}$

⑨ $0 \times 8 = \boxed{0}$

⑩ $0 \times 9 = \boxed{0}$

⑪ $1 \times 0 = \boxed{0}$

⑫ $1 \times 1 = \boxed{1}$

⑬ $1 \times 2 = \boxed{2}$

⑭ $1 \times 3 = \boxed{3}$

⑮ $1 \times 4 = \boxed{4}$

⑯ $1 \times 5 = \boxed{5}$

⑰ $1 \times 6 = \boxed{6}$

⑱ $1 \times 7 = \boxed{7}$

⑲ $1 \times 8 = \boxed{8}$

⑳ $1 \times 9 = \boxed{9}$

㉑ $2 \times 0 = \boxed{0}$

㉒ $2 \times 1 = \boxed{2}$

㉓ $2 \times 2 = \boxed{4}$

㉔ $2 \times 3 = \boxed{6}$

㉕ $2 \times 4 = \boxed{8}$

㉖ $2 \times 5 = \boxed{10}$

㉗ $2 \times 6 = \boxed{12}$

㉘ $2 \times 7 = \boxed{14}$

㉙ $2 \times 8 = \boxed{16}$

㉚ $2 \times 9 = \boxed{18}$

Copy and complete each equation.

① $3 \times 0 = \boxed{0}$

② $3 \times 1 = \boxed{3}$

③ $3 \times 2 = \boxed{6}$

④ $3 \times 3 = \boxed{9}$

⑤ $3 \times 4 = \boxed{12}$

⑥ $3 \times 5 = \boxed{15}$

⑦ $3 \times 6 = \boxed{18}$

⑧ $3 \times 7 = \boxed{21}$

⑨ $3 \times 8 = \boxed{24}$

⑩ $3 \times 9 = \boxed{27}$

⑪ $4 \times 0 = \boxed{0}$

⑫ $4 \times 1 = \boxed{4}$

⑬ $4 \times 2 = \boxed{8}$

⑭ $4 \times 3 = \boxed{12}$

⑮ $4 \times 4 = \boxed{16}$

⑯ $4 \times 5 =$ [illegible]
20

⑰ $4 \times 6 = \boxed{24}$

⑱ $4 \times 7 = \boxed{28}$

⑲ $4 \times 8 = \boxed{32}$

⑳ $4 \times 9 = \boxed{36}$

㉑ $5 \times 0 = \boxed{0}$

㉒ $5 \times 1 = \boxed{5}$

㉓ $5 \times 2 = \boxed{10}$

㉔ $5 \times 3 = \boxed{15}$

㉕ $5 \times 4 = \boxed{20}$

㉖ $5 \times 5 = \boxed{25}$

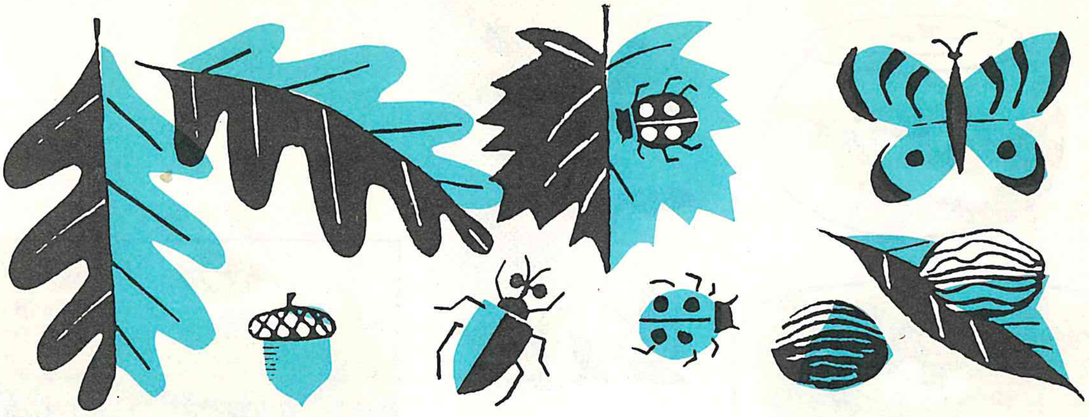
㉗ $5 \times 6 = \boxed{30}$

㉘ $5 \times 7 = \boxed{35}$

㉙ $5 \times 8 = \boxed{40}$

㉚ $5 \times 9 = \boxed{45}$

STORY PROBLEMS



A TRIP TO THE WOODS

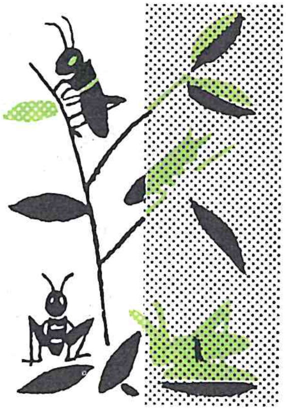
Work the story problems.

1. In the fall the third-grade class went to the woods. Four of the boys chased butterflies. They each brought 6 yellow ones and 3 black ones back to school. They made a display of these 36 butterflies.

2. Three of the girls looked for insects. They each found 2 ladybugs and 5 beetles. The girls had 21 insects for their insect cages.

3. Five of the boys decided to collect leaves for the room. They each chose 3 maple leaves and 3 oak leaves. These 30 leaves made a fine display on the bulletin board.

4. Two of the girls picked up nuts. They each chose 4 acorns and 4 walnuts. The girls took these 16 nuts back to the room with them.



THE CLASS PETS

Work the story problems.

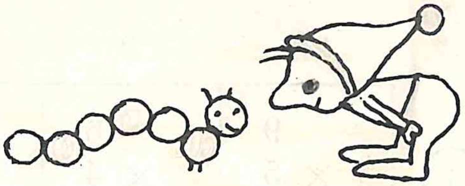
1. The third-grade children had fun with the class pets. Frank liked the 4 turtles best. He fed each turtle 4 flies in the morning and 2 flies in the afternoon. Frank fed 24 flies to the turtles.

2. One of the boys brought 2 ant houses to school. The children filled them with sand. They put 4 red ants and 5 black ants in each house. They liked to watch the 18 ants digging tunnels.

3. The children built 3 insect cages. In each cage they placed 6 grasshoppers and 2 crickets. They had 24 insects in their cages.

4. On the side shelf there were 5 fish bowls. Each fish bowl held 3 orange fish and 5 black fish. The third graders took turns feeding these 40 fish.

MULTIPLICATION



Copy and complete each equation.

1a $9 \times 5 = \boxed{45}$

1b $5 \times 9 = \boxed{45}$

2a $6 \times 3 = \boxed{18}$

2b $3 \times 6 = \boxed{18}$

3a $8 \times 4 = \boxed{32}$

3b $4 \times 8 = \boxed{32}$

4a $7 \times 5 = \boxed{35}$

4b $5 \times 7 = \boxed{35}$

5a $6 \times 2 = \boxed{12}$

5b $2 \times 6 = \boxed{12}$

6a $8 \times 5 = \boxed{40}$

6b $5 \times 8 = \boxed{40}$

7a $7 \times 4 = \boxed{28}$

7b $4 \times 7 = \boxed{28}$

8a $5 \times 4 = \boxed{20}$

8b $4 \times 5 = \boxed{20}$

9a $9 \times 3 = \boxed{27}$

9b $3 \times 9 = \boxed{27}$

10a $9 \times 4 = \boxed{36}$

10b $4 \times 9 = \boxed{36}$

11a $8 \times 3 = \boxed{24}$

11b $3 \times 8 = \boxed{24}$

12a $7 \times 2 = \boxed{14}$

12b $2 \times 7 = \boxed{14}$

13a $5 \times 3 = \boxed{15}$

13b $3 \times 5 = \boxed{15}$

14a $3 \times 7 = \boxed{21}$

14b $7 \times 3 = \boxed{21}$

15a $6 \times 4 = \boxed{24}$

15b $4 \times 6 = \boxed{24}$

16a $4 \times 3 = \boxed{12}$

16b $3 \times 4 = \boxed{12}$

17a $6 \times 5 = \boxed{30}$

17b $5 \times 6 = \boxed{30}$

18a $8 \times 2 = \boxed{16}$

18b $2 \times 8 = \boxed{16}$

Find the products.

	A	B	C	D	E	F
①	9 × 5 45	6 × 4 24	2 × 7 14	5 × 3 15	7 × 3 21	2 × 9 18
②	8 × 4 32	3 × 6 18	4 × 4 16	2 × 6 12	9 × 3 27	5 × 5 25
③	6 × 5 30	4 × 9 36	5 × 2 10	2 × 8 16	5 × 4 20	8 × 5 40
④	3 × 3 9	5 × 9 45	8 × 3 24	6 × 3 18	2 × 5 10	4 × 8 32
⑤	7 × 4 28	4 × 2 8	2 × 9 18	3 × 4 12	2 × 3 6	9 × 4 36
⑥	3 × 8 24	4 × 5 20	5 × 7 35	4 × 6 24	4 × 7 28	3 × 9 27
⑦	2 × 4 8	6 × 2 12	3 × 7 21	3 × 2 6	7 × 5 35	8 × 2 16

Copy and complete each equation.

① $6 \times \boxed{4} = 24$

② $3 \times 5 = \boxed{15}$

③ $4 \times \boxed{4} = 16$

④ $4 \times \boxed{3} = 12$

⑤ $\boxed{3} \times 7 = 21$

⑥ $8 \times 3 = \boxed{24}$

⑦ $\boxed{6} \times 5 = 30$

⑧ $7 \times \boxed{5} = 35$

⑨ $9 \times 4 = \boxed{36}$

⑩ $5 \times \boxed{5} = 25$

⑪ $\boxed{6} \times 3 = 18$

⑫ $9 \times \boxed{5} = 45$

⑬ $2 \times \boxed{9} = 18$

⑭ $\boxed{8} \times 4 = 32$

⑮ $7 \times 4 = \boxed{28}$

⑯ $5 \times 9 = \boxed{45}$

⑰ $8 \times \boxed{5} = 40$

⑱ $\boxed{9} \times 3 = 27$

⑲ $2 \times \boxed{8} = 16$

⑳ $3 \times \boxed{8} = 24$

㉑ $2 \times 7 = \boxed{14}$

㉒ $3 \times 4 = \boxed{12}$

㉓ $4 \times \boxed{9} = 36$

㉔ $\boxed{5} \times 4 = 20$

STORY PROBLEMS

THE BIRTHDAY PARTY

Work the story problems.

1. Nan invited 8 friends to her birthday party. She gave each friend 5 clothespins for the first party game. She gave 40 pins to her friends.
2. Ann, Penny, and Kate were members of the team that won the first game. Each girl dropped all 5 of her clothespins into a milk bottle. This team dropped 15 pins into the bottles.
3. The next game was a peanut hunt. David, Peter, and Sam won this game by finding 7 peanuts each. Their team found 21 peanuts.
4. The children laughed as the balloon game began. Dick and Peter each ran and caught 4 balloons. Ellen and Penny each ran and caught 6 balloons. The girls caught 4 more balloons than the boys caught.
5. It was fun to play Pin the Nose on the Clown. Each of Nan's 8 friends had 3 turns. Her friends tried 24 times to pin the nose on the clown.

Work the story problems.

1. The children sat down around the birthday table. Each of the 9 children found a favor with 5 gumdrops. 45 gumdrops were used to make these favors.

(Note: "Forty-five" can also be accepted as a word.)

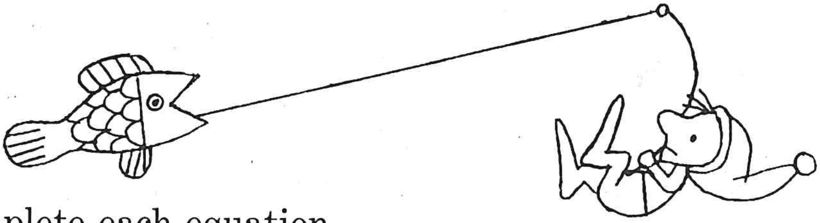
2. Mother served a scoop of vanilla ice cream and a scoop of chocolate to each of the 9 children. She served 18 scoops of ice cream.

3. As the 8 children left the party, Nan gave each one 3 balloons to take home. She had 24 balloons for the children.

4. Nan played with a bowling game Ellen had given her. Nan rolled the ball 4 times. Each time she knocked down 6 pins. Nan knocked down 24 pins.

5. Nan put her 12 birthday presents on a shelf in her room. She put the same number of presents in each of 3 piles. In each pile there were 4 presents.

MULTIPLICATION AND DIVISION



Copy and complete each equation.

(1a) $\boxed{8} \times 5 = 40$

(1b) $40 \div 5 = \boxed{8}$

(2a) $\boxed{3} \times 6 = 18$

(2b) $18 \div 6 = \boxed{3}$

(3a) $\boxed{4} \times 7 = 28$

(3b) $28 \div 7 = \boxed{4}$

(4a) $\boxed{4} \times 9 = 36$

(4b) $36 \div 9 = \boxed{4}$

(5a) $\boxed{3} \times 8 = 24$

(5b) $24 \div 8 = \boxed{3}$

(6a) $\boxed{4} \times 6 = 24$

(6b) $24 \div 6 = \boxed{4}$

(7a) $\boxed{4} \times 8 = 32$

(7b) $32 \div 8 = \boxed{4}$

(8a) $\boxed{5} \times 7 = 35$

(8b) $35 \div 7 = \boxed{5}$

(9a) $\boxed{9} \times 5 = 45$

(9b) $45 \div 5 = \boxed{9}$

(10a) $\boxed{5} \times 6 = 30$

(10b) $30 \div 6 = \boxed{5}$

(11a) $\boxed{3} \times 9 = 27$

(11b) $27 \div 9 = \boxed{3}$

(12a) $\boxed{2} \times 8 = 16$

(12b) $16 \div 8 = \boxed{2}$

Copy and complete each equation.

① $20 \div 5 = \boxed{4}$

② $27 \div 9 = \boxed{3}$

③ $28 \div 7 = \boxed{4}$

④ $30 \div 5 = \boxed{6}$

⑤ $14 \div 7 = \boxed{2}$

⑥ $36 \div 9 = \boxed{4}$

⑦ $24 \div 8 = \boxed{7}$

⑧ $25 \div 5 = \boxed{5}$

⑨ $40 \div 8 = \boxed{5}$

⑩ $35 \div 7 = \boxed{5}$

⑪ $12 \div 6 = \boxed{2}$

⑫ $32 \div 8 = \boxed{4}$

⑬ $16 \div 4 = \boxed{4}$

⑭ $16 \div 8 = \boxed{2}$

⑮ $35 \div 5 = \boxed{7}$

⑯ $21 \div 7 = \boxed{3}$

⑰ $32 \div 4 = \boxed{8}$

⑱ $27 \div 3 = \boxed{9}$

⑲ $18 \div 6 = \boxed{3}$

⑳ $18 \div 9 = \boxed{2}$

㉑ $45 \div 9 = \boxed{5}$

㉒ $36 \div 4 = \boxed{9}$

㉓ $15 \div 5 = \boxed{3}$

㉔ $24 \div 6 = \boxed{4}$

Copy each problem and write the correct sign, >, <, or =, in each ○.

① 3 × 4 ⊜ 4 × (2 + 1)

② 20 ÷ 5 ⧀ (20 − 5) − 5

③ (7 + 1) × 5 ⊜ (7 × 5) + (1 × 5)

④ 16 ÷ 4 ⧁ 6 ÷ 2

⑤ 2 × 7 ⧀ 3 × 5

⑥ 8 × 3 ⊜ 4 × 6

⑦ 3 × 5 ⧁ 2 × (5 + 1)

⑧ 15 ÷ 5 ⧀ 3 × (2 + 1)

⑨ (4 + 1) × 9 ⧁ 40 ÷ 5

⑩ (5 + 1) × 5 ⧁ 45 ÷ 5

⑪ 12 ÷ 6 ⧀ 12 ÷ 2

⑫ 16 ÷ 8 ⧀ 8 × 2

⑬ 6 × 2 ⊜ 2 × 6

⑭ 8 × (2 + 1) ⊜ 3 × 8

⑮ (1 + 1) × 5 ⊜ 5 × 2

⑯ 5 × 7 ⊜ 7 × 5

⑰ 36 ÷ 6 ⧀ 6 × 6

⑱ 9 × (1 + 1) ⧁ 18 ÷ 9

⑲ 5 × 2 ⧁ 30 ÷ 6

⑳ 4 ÷ 2 ⧁ 2 × 0

㉑ 4 × 7 ⧁ 28 ÷ 7

㉒ 6 ÷ 2 ⧁ 0 × 3

㉓ 12 ÷ 4 ⧀ 12 ÷ 3

㉔ 7 ÷ 7 ⧀ 1 × 7

Find the quotients.

	A	B	C	D
①	$\begin{array}{r}4\\9\overline{)36}\end{array}$	$\begin{array}{r}9\\5\overline{)45}\end{array}$	$\begin{array}{r}5\\8\overline{)40}\end{array}$	$\begin{array}{r}1\\9\overline{)9}\end{array}$
②	$\begin{array}{r}3\\7\overline{)21}\end{array}$	$\begin{array}{r}8\\4\overline{)32}\end{array}$	$\begin{array}{r}5\\6\overline{)30}\end{array}$	$\begin{array}{r}5\\7\overline{)35}\end{array}$
③	$\begin{array}{r}2\\7\overline{)14}\end{array}$	$\begin{array}{r}8\\5\overline{)40}\end{array}$	$\begin{array}{r}4\\8\overline{)32}\end{array}$	$\begin{array}{r}5\\9\overline{)45}\end{array}$
④	$\begin{array}{r}2\\8\overline{)16}\end{array}$	$\begin{array}{r}3\\9\overline{)27}\end{array}$	$\begin{array}{r}4\\7\overline{)28}\end{array}$	$\begin{array}{r}7\\5\overline{)35}\end{array}$
⑤	$\begin{array}{r}9\\3\overline{)27}\end{array}$	$\begin{array}{r}3\\6\overline{)18}\end{array}$	$\begin{array}{r}2\\9\overline{)18}\end{array}$	$\begin{array}{r}4\\4\overline{)16}\end{array}$
⑥	$\begin{array}{r}3\\8\overline{)24}\end{array}$	$\begin{array}{r}4\\6\overline{)24}\end{array}$	$\begin{array}{r}6\\4\overline{)24}\end{array}$	$\begin{array}{r}8\\3\overline{)24}\end{array}$

Copy in two columns as shown and complete each equation.

1a

$$5 \times 6 = \boxed{30}$$

1b

$$6 \times 5 = \boxed{30}$$

2a

$$\begin{aligned} 6 \times 6 &= (5 + 1) \times 6 \\ &= (5 \times 6) + (1 \times 6) \\ &= \underline{\quad 30 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{36} \end{aligned}$$

2b

$$\begin{aligned} 6 \times 6 &= 6 \times (5 + 1) \\ &= (6 \times 5) + (6 \times 1) \\ &= \underline{\quad 30 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{36} \end{aligned}$$

3a

$$\begin{aligned} 7 \times 6 &= (6 + 1) \times 6 \\ &= (6 \times 6) + (1 \times 6) \\ &= \underline{\quad 36 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{42} \end{aligned}$$

3b

$$\begin{aligned} 6 \times 7 &= 6 \times (6 + 1) \\ &= (6 \times 6) + (6 \times 1) \\ &= \underline{\quad 36 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{42} \end{aligned}$$

4a

$$\begin{aligned} 8 \times 6 &= (7 + 1) \times 6 \\ &= (7 \times 6) + (\underline{1} \times 6) \\ &= \underline{\quad 42 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{48} \end{aligned}$$

4b

$$\begin{aligned} 6 \times 8 &= 6 \times (7 + 1) \\ &= (6 \times 7) + (6 \times \underline{1}) \\ &= \underline{\quad 42 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{48} \end{aligned}$$

5a

$$\begin{aligned} 9 \times 6 &= (8 + 1) \times 6 \\ &= (\underline{8} \times 6) + (1 \times 6) \\ &= \underline{\quad 48 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{54} \end{aligned}$$

5b

$$\begin{aligned} 6 \times 9 &= 6 \times (8 + 1) \\ &= (6 \times \underline{8}) + (6 \times 1) \\ &= \underline{\quad 48 \quad} + \underline{\quad 6 \quad} \\ &= \boxed{54} \end{aligned}$$

Copy and complete each equation.

① $0 \times 6 = \boxed{0}$

② $1 \times 6 = \boxed{6}$

③ $2 \times 6 = \boxed{12}$

④ $3 \times 6 = \boxed{18}$

⑤ $4 \times 6 = \boxed{24}$

⑥ $5 \times 6 = \boxed{30}$

⑦ $6 \times 6 = \boxed{36}$

⑧ $7 \times 6 = \boxed{42}$

⑨ $8 \times 6 = \boxed{48}$

⑩ $9 \times 6 = \boxed{54}$

Find the products.

	A	B	C	D	E	F
⑪	$\begin{array}{r}6\\ \times\ 3\\ \hline 18\end{array}$	$\begin{array}{r}8\\ \times\ 6\\ \hline 48\end{array}$	$\begin{array}{r}7\\ \times\ 5\\ \hline 35\end{array}$	$\begin{array}{r}6\\ \times\ 7\\ \hline 42\end{array}$	$\begin{array}{r}9\\ \times\ 6\\ \hline 54\end{array}$	$\begin{array}{r}6\\ \times\ 2\\ \hline 12\end{array}$
⑫	$\begin{array}{r}6\\ \times\ 4\\ \hline 24\end{array}$	$\begin{array}{r}6\\ \times\ 6\\ \hline 36\end{array}$	$\begin{array}{r}7\\ \times\ 6\\ \hline 42\end{array}$	$\begin{array}{r}5\\ \times\ 6\\ \hline 30\end{array}$	$\begin{array}{r}6\\ \times\ 1\\ \hline 6\end{array}$	$\begin{array}{r}6\\ \times\ 9\\ \hline 54\end{array}$
⑬	$\begin{array}{r}6\\ \times\ 5\\ \hline 30\end{array}$	$\begin{array}{r}4\\ \times\ 6\\ \hline 24\end{array}$	$\begin{array}{r}3\\ \times\ 6\\ \hline 18\end{array}$	$\begin{array}{r}9\\ \times\ 5\\ \hline 45\end{array}$	$\begin{array}{r}6\\ \times\ 8\\ \hline 48\end{array}$	$\begin{array}{r}0\\ \times\ 6\\ \hline 0\end{array}$

Copy in two columns as shown and complete each equation.

1a

$$5 \times 7 = \boxed{35}$$

1b

$$7 \times 5 = \boxed{35}$$

2a

$$\begin{aligned} 6 \times 7 &= (5 + 1) \times 7 \\ &= (5 \times 7) + (1 \times 7) \\ &= \underline{\quad 35 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{42} \end{aligned}$$

2b

$$\begin{aligned} 7 \times 6 &= 7 \times (5 + 1) \\ &= (7 \times 5) + (7 \times 1) \\ &= \underline{\quad 35 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{42} \end{aligned}$$

3a

$$\begin{aligned} 7 \times 7 &= (6 + 1) \times 7 \\ &= (6 \times 7) + (1 \times 7) \\ &= \underline{\quad 42 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{49} \end{aligned}$$

3b

$$\begin{aligned} 7 \times 7 &= 7 \times (6 + 1) \\ &= (7 \times 6) + (7 \times 1) \\ &= \underline{\quad 42 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{49} \end{aligned}$$

4a

$$\begin{aligned} 8 \times 7 &= (7 + 1) \times 7 \\ &= (7 \times 7) + (\underline{1} \times 7) \\ &= \underline{\quad 49 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{56} \end{aligned}$$

4b

$$\begin{aligned} 7 \times 8 &= 7 \times (7 + 1) \\ &= (7 \times 7) + (7 \times \underline{1}) \\ &= \underline{\quad 49 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{56} \end{aligned}$$

5a

$$\begin{aligned} 9 \times 7 &= (8 + 1) \times 7 \\ &= (\underline{8} \times 7) + (1 \times 7) \\ &= \underline{\quad 56 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{63} \end{aligned}$$

5b

$$\begin{aligned} 7 \times 9 &= 7 \times (8 + 1) \\ &= (7 \times \underline{8}) + (7 \times 1) \\ &= \underline{\quad 56 \quad} + \underline{\quad 7 \quad} \\ &= \boxed{63} \end{aligned}$$

Copy and complete each equation.

① $0 \times 7 = \boxed{0}$

② $1 \times 7 = \boxed{7}$

③ $2 \times 7 = \boxed{14}$

④ $3 \times 7 = \boxed{21}$

⑤ $4 \times 7 = \boxed{28}$

⑥ $5 \times 7 = \boxed{35}$

⑦ $6 \times 7 = \boxed{42}$

⑧ $7 \times 7 = \boxed{49}$

⑨ $8 \times 7 = \boxed{56}$

⑩ $9 \times 7 = \boxed{63}$

Find the products.

	A	B	C	D	E	F
⑪	6 × 4 24	6 × 9 54	7 × 8 56	6 × 6 36	5 × 7 35	6 × 8 48
⑫	2 × 7 14	3 × 7 21	8 × 5 40	4 × 7 28	3 × 8 24	0 × 7 0
⑬	7 × 9 63	7 × 6 42	7 × 1 7	5 × 9 45	7 × 3 21	7 × 7 49

Copy in two columns as shown and complete each equation.

1a

$$5 \times 8 = \boxed{40}$$

1b

$$8 \times 5 = \boxed{40}$$

2a

$$\begin{aligned} 6 \times 8 &= (5 + 1) \times 8 \\ &= (5 \times 8) + (1 \times 8) \\ &= \underline{40} + \underline{8} \\ &= \boxed{48} \end{aligned}$$

2b

$$\begin{aligned} 8 \times 6 &= 8 \times (5 + 1) \\ &= (8 \times 5) + (8 \times 1) \\ &= \underline{40} + \underline{8} \\ &= \boxed{48} \end{aligned}$$

3a

$$\begin{aligned} 7 \times 8 &= (6 + 1) \times 8 \\ &= (6 \times 8) + (1 \times 8) \\ &= \underline{48} + \underline{8} \\ &= \boxed{56} \end{aligned}$$

3b

$$\begin{aligned} 8 \times 7 &= 8 \times (6 + 1) \\ &= (8 \times 6) + (8 \times 1) \\ &= \underline{48} + \underline{8} \\ &= \boxed{56} \end{aligned}$$

4a

$$\begin{aligned} 8 \times 8 &= (7 + 1) \times 8 \\ &= (7 \times 8) + (\underline{1} \times 8) \\ &= \underline{56} + \underline{8} \\ &= \boxed{64} \end{aligned}$$

4b

$$\begin{aligned} 8 \times 8 &= 8 \times (7 + 1) \\ &= (8 \times 7) + (8 \times \underline{1}) \\ &= \underline{56} + \underline{8} \\ &= \boxed{64} \end{aligned}$$

5a

$$\begin{aligned} 9 \times 8 &= (8 + 1) \times 8 \\ &= (\underline{8} \times 8) + (1 \times 8) \\ &= \underline{64} + \underline{8} \\ &= \boxed{}\,72 \end{aligned}$$

5b

$$\begin{aligned} 8 \times 9 &= 8 \times (8 + 1) \\ &= (8 \times \underline{8}) + (8 \times 1) \\ &= \underline{64} + \underline{8} \\ &= \boxed{72} \end{aligned}$$

Copy and complete each equation.

① $0 \times 8 = \boxed{0}$

② $1 \times 8 = \boxed{8}$

③ $2 \times 8 = \boxed{16}$

④ $3 \times 8 = \boxed{24}$

⑤ $4 \times 8 = \boxed{32}$

⑥ $5 \times 8 = \boxed{40}$

⑦ $6 \times 8 = \boxed{48}$

⑧ $7 \times 8 = \boxed{56}$

⑨ $8 \times 8 = \boxed{64}$

⑩ $9 \times 8 = \boxed{72}$

Find the products.

	A	B	C	D	E	F
⑪	8 × 2 16	8 × 4 32	8 × 8 64	3 × 7 21	8 × 0 0	5 × 8 40
⑫	7 × 6 42	1 × 8 8	8 × 5 40	6 × 4 24	8 × 6 48	8 × 3 24
⑬	8 × 9 72	7 × 8 56	4 × 8 32	5 × 7 35	6 × 8 48	8 × 7 56

Copy in two columns as shown and complete each equation.

1a

$$5 \times 9 = \boxed{45}$$

1b

$$9 \times 5 = \boxed{45}$$

2a

$$\begin{aligned} 6 \times 9 &= (5 + 1) \times 9 \\ &= (5 \times 9) + (1 \times 9) \\ &= \underline{45} + \underline{9} \\ &= \boxed{54} \end{aligned}$$

2b

$$\begin{aligned} 9 \times 6 &= 9 \times (5 + 1) \\ &= (9 \times 5) + (9 \times 1) \\ &= \underline{45} + \underline{9} \\ &= \boxed{54} \end{aligned}$$

3a

$$\begin{aligned} 7 \times 9 &= (6 + 1) \times 9 \\ &= (6 \times 9) + (1 \times 9) \\ &= \underline{54} + \underline{9} \\ &= \boxed{63} \end{aligned}$$

3b

$$\begin{aligned} 9 \times 7 &= 9 \times (6 + 1) \\ &= (9 \times 6) + (9 \times 1) \\ &= \underline{54} + \underline{9} \\ &= \boxed{63} \end{aligned}$$

4a

$$\begin{aligned} 8 \times 9 &= (7 + 1) \times 9 \\ &= (7 \times 9) + (\underline{1} \times 9) \\ &= \underline{63} + \underline{9} \\ &= \boxed{72} \end{aligned}$$

4b

$$\begin{aligned} 9 \times 8 &= 9 \times (7 + 1) \\ &= (9 \times 7) + (9 \times \underline{1}) \\ &= \underline{63} + \underline{9} \\ &= \boxed{72} \end{aligned}$$

5a

$$\begin{aligned} 9 \times 9 &= (8 + 1) \times 9 \\ &= (\underline{8} \times 9) + (1 \times 9) \\ &= \underline{72} + \underline{9} \\ &= \boxed{81} \end{aligned}$$

5b

$$\begin{aligned} 9 \times 9 &= 9 \times (8 + 1) \\ &= (9 \times \underline{8}) + (9 \times 1) \\ &= \underline{72} + \underline{9} \\ &= \boxed{81} \end{aligned}$$

Copy and complete each equation.

① $0 \times 9 = \boxed{0}$

② $1 \times 9 = \boxed{9}$

③ $2 \times 9 = \boxed{18}$

④ $3 \times 9 = \boxed{27}$

⑤ $4 \times 9 = \boxed{36}$

⑥ $5 \times 9 = \boxed{45}$

⑦ $6 \times 9 = \boxed{54}$

⑧ $7 \times 9 = \boxed{63}$

⑨ $8 \times 9 = \boxed{72}$

⑩ $9 \times 9 = \boxed{81}$

Find the products.

	A	B	C	D	E	F
⑪	$\begin{array}{r}1\\ \times\ 9\\ \hline 9\end{array}$	$\begin{array}{r}7\\ \times\ 7\\ \hline 49\end{array}$	$\begin{array}{r}6\\ \times\ 9\\ \hline 54\end{array}$	$\begin{array}{r}2\\ \times\ 9\\ \hline 18\end{array}$	$\begin{array}{r}8\\ \times\ 4\\ \hline 32\end{array}$	$\begin{array}{r}9\\ \times\ 0\\ \hline 0\end{array}$
⑫	$\begin{array}{r}5\\ \times\ 9\\ \hline 45\end{array}$	$\begin{array}{r}8\\ \times\ 8\\ \hline 64\end{array}$	$\begin{array}{r}6\\ \times\ 7\\ \hline 42\end{array}$	$\begin{array}{r}7\\ \times\ 9\\ \hline 63\end{array}$	$\begin{array}{r}9\\ \times\ 9\\ \hline 81\end{array}$	$\begin{array}{r}4\\ \times\ 9\\ \hline 36\end{array}$
⑬	$\begin{array}{r}6\\ \times\ 8\\ \hline 48\end{array}$	$\begin{array}{r}7\\ \times\ 4\\ \hline 28\end{array}$	$\begin{array}{r}8\\ \times\ 7\\ \hline 56\end{array}$	$\begin{array}{r}6\\ \times\ 6\\ \hline 36\end{array}$	$\begin{array}{r}3\\ \times\ 9\\ \hline 27\end{array}$	$\begin{array}{r}8\\ \times\ 9\\ \hline 72\end{array}$

Copy and complete each equation.

① $4 \times 7 = \boxed{28}$
② $9 \times 5 = \boxed{45}$
③ $7 \times 9 = \boxed{63}$
④ $8 \times 8 = \boxed{64}$
⑤ $3 \times 8 = \boxed{24}$
⑥ $6 \times 5 = \boxed{30}$
⑦ $4 \times 9 = \boxed{36}$
⑧ $8 \times 6 = \boxed{48}$
⑨ $5 \times 8 = \boxed{40}$
⑩ $9 \times 8 = \boxed{72}$
⑪ $6 \times 4 = \boxed{24}$
⑫ $7 \times 6 = \boxed{42}$
⑬ $9 \times 0 = \boxed{0}$
⑭ $6 \times 8 = \boxed{48}$
⑮ $9 \times 9 = \boxed{81}$
⑯ $7 \times 5 = \boxed{35}$
⑰ $3 \times 6 = \boxed{18}$
⑱ $8 \times 7 = \boxed{56}$
⑲ $6 \times 9 = \boxed{54}$
⑳ $5 \times 6 = \boxed{30}$
㉑ $9 \times 7 = \boxed{63}$
㉒ $6 \times 7 = \boxed{42}$
㉓ $2 \times 8 = \boxed{16}$
㉔ $8 \times 5 = \boxed{40}$
㉕ $4 \times 8 = \boxed{32}$
㉖ $5 \times 9 = \boxed{45}$
㉗ $7 \times 7 = \boxed{49}$
㉘ $3 \times 9 = \boxed{27}$
㉙ $7 \times 8 = \boxed{56}$
㉚ $9 \times 6 = \boxed{54}$
㉛ $0 \times 8 = \boxed{0}$
㉜ $5 \times 7 = \boxed{35}$
㉝ $6 \times 6 = \boxed{36}$
㉞ $8 \times 9 = \boxed{72}$
㉟ $7 \times 4 = \boxed{28}$
㊱ $8 \times 3 = \boxed{24}$
㊲ $4 \times 6 = \boxed{24}$
㊳ $3 \times 7 = \boxed{21}$
㊴ $9 \times 4 = \boxed{36}$

Find the products.

	A	B	C	D	E	F	G
①	9 × 8 72	6 × 6 36	7 × 5 35	5 × 0 0	5 × 4 20	6 × 9 54	8 × 7 56
②	9 × 3 27	7 × 7 49	9 × 5 45	8 × 4 32	5 × 8 40	8 × 2 16	7 × 6 42
③	7 × 9 63	6 × 5 30	9 × 6 54	7 × 8 56	6 × 3 18	5 × 7 35	9 × 9 81
④	6 × 8 48	8 × 5 40	8 × 9 72	4 × 6 24	6 × 7 42	0 × 7 0	8 × 6 48
⑤	7 × 4 28	5 × 9 45	9 × 7 63	8 × 8 64	8 × 3 24	5 × 6 30	9 × 4 36
⑥	4 × 8 32	7 × 3 21	4 × 9 36	0 × 6 0	6 × 4 24	3 × 8 24	4 × 7 28

Copy and complete each equation.

① $5 \times \boxed{9} = 45$

② $\boxed{6} \times 3 = 18$

③ $6 \times \boxed{5} = 30$

④ $7 \times \boxed{6} = 42$

⑤ $\boxed{4} \times 7 = 28$

⑥ $8 \times \boxed{3} = 24$

⑦ $\boxed{6} \times 4 = 24$

⑧ $\boxed{4} \times 8 = 32$

⑨ $9 \times \boxed{7} = 63$

⑩ $\boxed{8} \times 8 = 64$

⑪ $7 \times \boxed{5} = 35$

⑫ $\boxed{6} \times 6 = 36$

⑬ $\boxed{4} \times 6 = 24$

⑭ $4 \times \boxed{9} = 36$

⑮ $\boxed{9} \times 3 = 27$

⑯ $8 \times \boxed{9} = 72$

⑰ $\boxed{7} \times 8 = 56$

⑱ $4 \times \boxed{4} = 16$

⑲ $\boxed{8} \times 5 = 40$

⑳ $9 \times \boxed{9} = 81$

㉑ $\boxed{2} \times 9 = 18$

㉒ $\boxed{9} \times 6 = 54$

㉓ $6 \times \boxed{8} = 48$

㉔ $\boxed{7} \times 7 = 49$

Copy and complete each equation.

1a $\boxed{7} \times 9 = 63$

1b $63 \div 9 = \boxed{7}$

2a $\boxed{6} \times 7 = 42$

2b $42 \div 7 = \boxed{6}$

3a $\boxed{9} \times 8 = 72$

3b $72 \div 8 = \boxed{9}$

4a $\boxed{8} \times 7 = 56$

4b $56 \div 7 = \boxed{8}$

5a $\boxed{8} \times 8 = 64$

5b $64 \div 8 = \boxed{8}$

6a $\boxed{8} \times 6 = 48$

6b $48 \div 6 = \boxed{8}$

7a $\boxed{8} \times 4 = 32$

7b $32 \div 4 = \boxed{8}$

8a $\boxed{9} \times 9 = 81$

8b $81 \div 9 = \boxed{9}$

9a $\boxed{9} \times 6 = 54$

9b $54 \div 6 = \boxed{9}$

10a $\boxed{9} \times 3 = 27$

10b $27 \div 3 = \boxed{9}$

11a $\boxed{6} \times 6 = 36$

11b $36 \div 6 = \boxed{6}$

12a $\boxed{7} \times 7 = 49$

12b $49 \div 7 = \boxed{7}$

Copy and complete each equation.

① $81 \div 9 = \boxed{9}$
② $35 \div 7 = \boxed{5}$
③ $18 \div 3 = \boxed{6}$
④ $56 \div 8 = \boxed{7}$
⑤ $54 \div 6 = \boxed{9}$
⑥ $30 \div 5 = \boxed{6}$
⑦ $63 \div 9 = \boxed{7}$
⑧ $27 \div 3 = \boxed{9}$
⑨ $49 \div 7 = \boxed{7}$
⑩ $45 \div 5 = \boxed{9}$
⑪ $32 \div 4 = \boxed{8}$
⑫ $40 \div 8 = \boxed{5}$
⑬ $16 \div 2 = \boxed{8}$
⑭ $42 \div 6 = \boxed{7}$
⑮ $56 \div 7 = \boxed{8}$
⑯ $72 \div 8 = \boxed{9}$
⑰ $36 \div 6 = \boxed{6}$
⑱ $8 \div 8 = \boxed{1}$
⑲ $48 \div 6 = \boxed{8}$
⑳ $0 \div 7 = \boxed{0}$
㉑ $42 \div 7 = \boxed{6}$
㉒ $24 \div 6 = \boxed{4}$
㉓ $72 \div 9 = \boxed{8}$
㉔ $40 \div 5 = \boxed{8}$
㉕ $48 \div 8 = \boxed{6}$
㉖ $28 \div 4 = \boxed{7}$
㉗ $45 \div 9 = \boxed{5}$
㉘ $63 \div 7 = \boxed{9}$
㉙ $64 \div 8 = \boxed{8}$
㉚ $24 \div 3 = \boxed{8}$
㉛ $30 \div 6 = \boxed{5}$
㉜ $36 \div 4 = \boxed{9}$
㉝ $35 \div 5 = \boxed{7}$
㉞ $54 \div 9 = \boxed{6}$
㉟ $32 \div 8 = \boxed{4}$
㊱ $21 \div 3 = \boxed{7}$
㊲ $36 \div 9 = \boxed{4}$
㊳ $24 \div 4 = \boxed{6}$
㊴ $28 \div 7 = \boxed{4}$

Copy each problem and write the correct sign, +, −, ×, or ÷, in each △.

① $6 \times 9 = 9 \overset{\times}{\triangle} 6$

② $63 \overset{\div}{\triangle} 9 = 7$

③ $64 \div 8 = 48 \overset{\div}{\triangle} 6$

④ $4 \div 2 = 8 \overset{\div}{\triangle} 4$

⑤ $32 \div 4 = 4 \overset{\times}{\triangle} 2$

⑥ $72 \div 8 = 5 \overset{+}{\triangle} 4$

⑦ $6 \overset{\times}{\triangle} 4 = 8 \times 3$

⑧ $(2 + 2) \times 9 = 9 \overset{\times}{\triangle} 4$

⑨ $2 \overset{+}{\triangle} 3 = 15 \div 3$

⑩ $3 \overset{\times}{\triangle} 2 = 48 \div 8$

⑪ $6 \overset{+}{\triangle} 3 = 3 \times 3$

⑫ $9 \overset{+}{\triangle} 3 = 6 \times 2$

⑬ $81 \overset{\div}{\triangle} 9 = 27 \div 3$

⑭ $4 \times 7 = 32 \overset{\div}{\triangle} 4$

⑮ $28 \div 4 = 42 \overset{\div}{\triangle} 6$

⑯ $(5 + 4) \times 8 = 8 \overset{\times}{\triangle} 9$

⑰ $2 \times 9 = 21 \overset{-}{\triangle} 3$

⑱ $24 \overset{\div}{\triangle} 4 = 30 \div 5$

⑲ $56 \overset{\div}{\triangle} 8 = 21 \div 3$

⑳ $4 \times 2 = 64 \overset{\div}{\triangle} 8$

㉑ $35 \overset{\div}{\triangle} 5 = 10 - 3$

㉒ $18 \overset{\div}{\triangle} 2 = 27 \div 3$

㉓ $3 \overset{\times}{\triangle} 8 = 6 \times 4$

㉔ $4 \underset{+}{\triangle} 5 = 18 \div 2$

Find the quotients.

	A	B	C	D
①	$\begin{array}{r}5\\6\overline{)30}\end{array}$	$\begin{array}{r}6\\7\overline{)42}\end{array}$	$\begin{array}{r}9\\2\overline{)18}\end{array}$	$\begin{array}{r}5\\8\overline{)40}\end{array}$
②	$\begin{array}{r}6\\6\overline{)36}\end{array}$	$\begin{array}{r}3\\8\overline{)24}\end{array}$	$\begin{array}{r}4\\4\overline{)16}\end{array}$	$\begin{array}{r}5\\5\overline{)25}\end{array}$
③	$\begin{array}{r}6\\8\overline{)48}\end{array}$	$\begin{array}{r}7\\9\overline{)63}\end{array}$	$\begin{array}{r}4\\9\overline{)36}\end{array}$	$\begin{array}{r}6\\3\overline{)18}\end{array}$
④	$\begin{array}{r}9\\3\overline{)27}\end{array}$	$\begin{array}{r}7\\8\overline{)56}\end{array}$	$\begin{array}{r}8\\9\overline{)72}\end{array}$	$\begin{array}{r}6\\4\overline{)24}\end{array}$
⑤	$\begin{array}{r}5\\7\overline{)35}\end{array}$	$\begin{array}{r}8\\8\overline{)64}\end{array}$	$\begin{array}{r}9\\9\overline{)81}\end{array}$	$\begin{array}{r}4\\8\overline{)32}\end{array}$
⑥	$\begin{array}{r}7\\7\overline{)49}\end{array}$	$\begin{array}{r}5\\9\overline{)45}\end{array}$	$\begin{array}{r}4\\7\overline{)28}\end{array}$	$\begin{array}{r}6\\9\overline{)54}\end{array}$

STORY PROBLEMS

A CAMERA FOR BETSY

Work the story problems.

1. For Christmas, Betsy got a camera. She bought 8 rolls of film for it. She could take 9 pictures on each roll. She planned to take 72 pictures.
2. On each of the 7 days after Christmas Betsy took 8 pictures. During this one week, Betsy snapped 56 pictures.
3. Betsy's 32 classmates lined up in 4 rows to let her take their picture. The same number of children stood in each row. There were 8 children in the front row.
4. Betsy took 7 rolls of film to the camera shop to be developed. Only 7 pictures on each roll were good. Betsy had 49 good pictures.
5. Betsy pasted some of the pictures in her picture album. On each of the first 6 pages she placed 7 pictures. Betsy pasted 42 pictures in her album.

BOBBY'S BIRDHOUSES

Work the story problems.

1. Bobby planned to make 6 birdhouses. Each house would take 8 pieces of wood. Bobby needed 48 pieces of wood.

2. Bobby used 9 nails for each of the 6 birdhouses. He used 54 nails.

3. Bobby had 36 shingles. He used the same number of shingles on each roof. Bobby used 6 shingles for each birdhouse.

4. Next Bobby painted the birdhouses. It took 7 minutes to paint each one. Bobby spent 42 minutes painting the birdhouses.

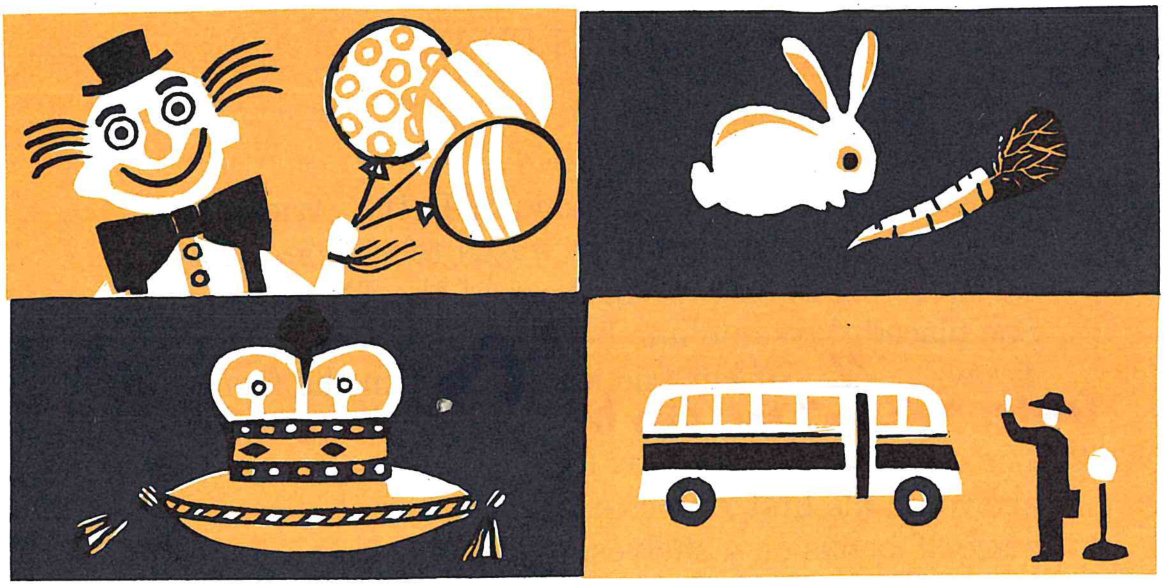
5. Bobby put the birdhouses out in the yard. Thirty birds came to live in them. The same number of birds lived in each house. 5 birds lived in each birdhouse.

(Note: "Five" can also be accepted as a word.)

MR. RIDDLEMAN

Work the story problems.

1. On Saturday afternoon a group of Betty's friends gathered in her playroom to watch television. Betty set up 28 chairs in rows in front of the TV set. She placed the same number of chairs in each of 4 rows. 7 of her friends could sit in the front row.
(Note: "seven" can also be accepted as a word.)
2. The children watched Mr. Riddleman. Joe answered his first riddle. A librarian wanted to place 36 books on 4 shelves. If she placed the same number of books on each shelf, there would be 9 books on one shelf.
3. Ellen answered the next riddle. Each day the milkman delivered 9 quarts of milk to Mrs. King's house. In one week he would leave 63 quarts of milk for Mrs. King.
4. Bill had the answer for the third riddle. Father moved 49 boxes from the attic to the basement. If he carried 7 boxes on each trip, Father had to make 7 trips.



Work the story problems.

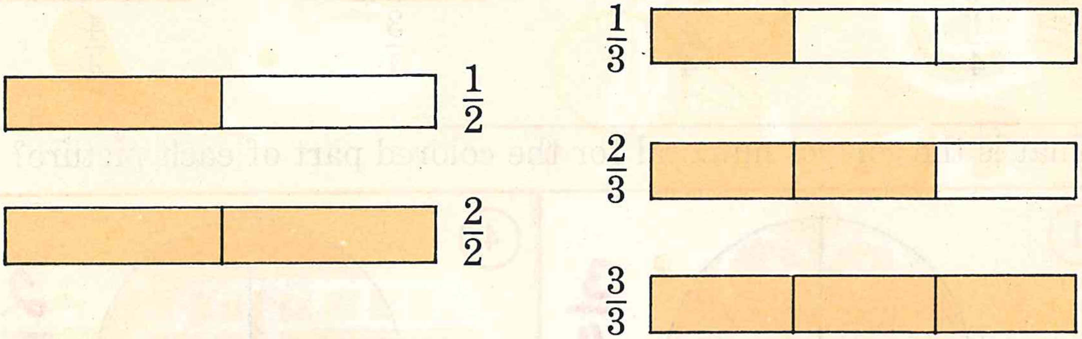
1. Polly was the first to answer the fourth riddle. At a carnival each of 4 clowns sold 8 balloons. 32 balloons were sold.
(Note: "Thirty-two" can also be accepted as a word.)

2. Dick answered the fifth riddle. A king had 56 pearls. He wanted to have the same number of these jewels set in each of 7 crowns. Each crown would hold 8 pearls.

3. Peter gave the answer to the sixth riddle. Each of 5 rabbits ate 2 bunches of carrots. In each bunch were 4 carrots. The rabbits ate 40 carrots.

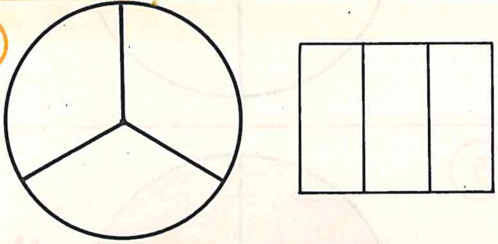
4. George gave the answer to the last riddle. A bus started out with 4 passengers. The bus made 6 stops. At each stop it took on 9 passengers and dropped off 4 passengers. 9 passengers were now on the bus.
(Note: "Nine" can also be accepted as a word.)

FRACTIONAL NUMBERS

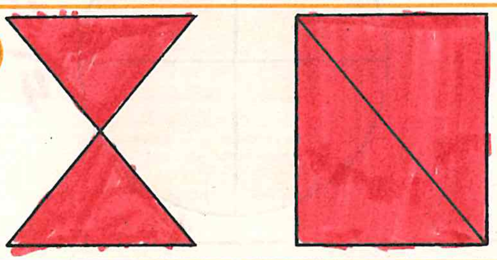


Copy each problem and color the correct part of each picture.

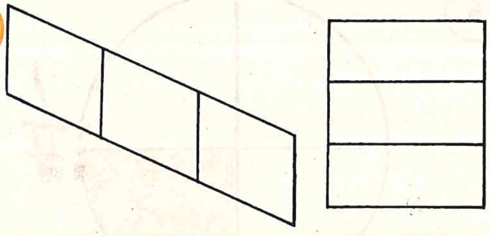
① $\frac{1}{3}$



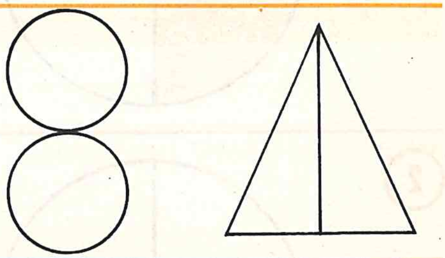
② $\frac{2}{2}$



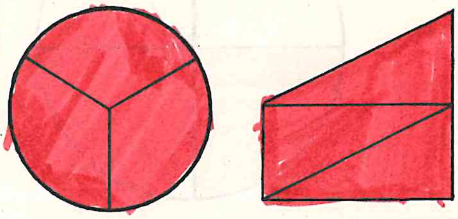
③ $\frac{2}{3}$



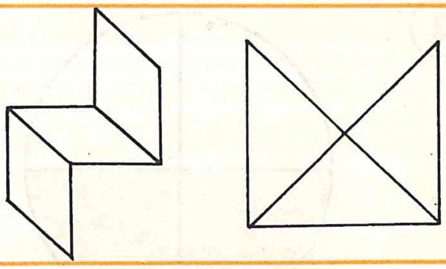
④ $\frac{1}{2}$



⑤ $\frac{3}{3}$

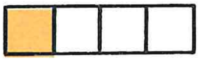


⑥ $\frac{1}{3}$

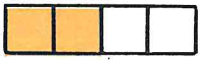


When we divide an object into two pieces of the same size, we call each piece one-half.
When we divide an object into three pieces of the same size, we call each piece one-third.

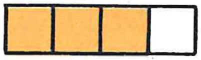
Note: Answers to Problems 1, 3, 4 and 6 will vary; however, a correct answer will be accepted only if directions are followed as shown.



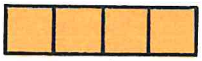
$\frac{1}{4}$



$\frac{2}{4}$



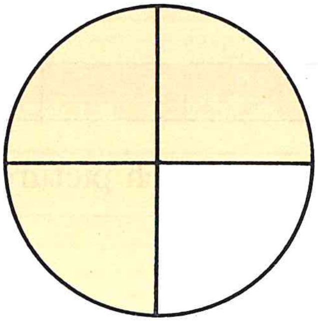
$\frac{3}{4}$



$\frac{4}{4}$

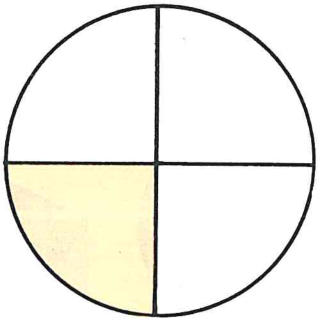
What is the correct numeral for the colored part of each picture?

①



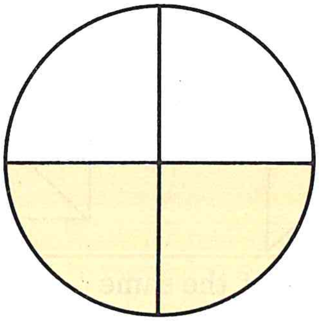
$\frac{3}{4}$

②



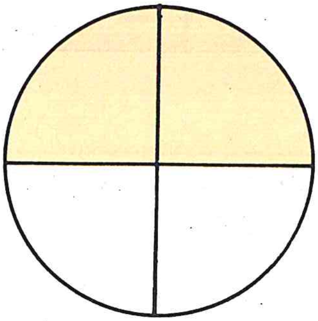
$\frac{1}{4}$

③



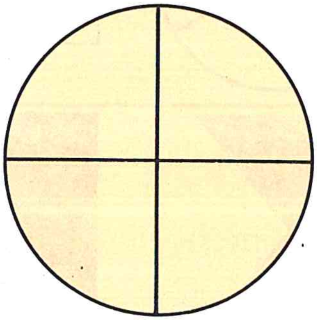
$\frac{2}{4}$

④



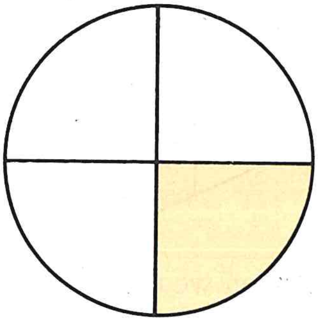
$\frac{2}{4}$

⑤



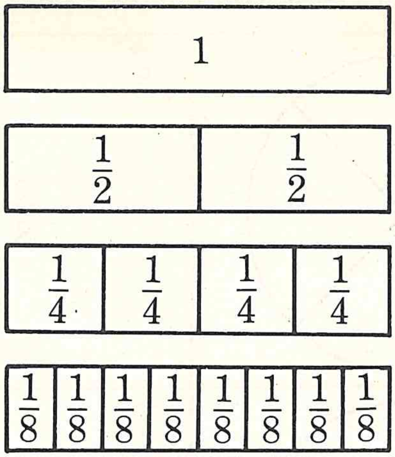
$\frac{4}{4}$ or 1

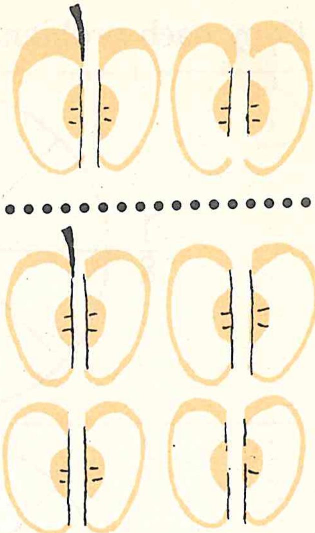
⑥



$\frac{1}{4}$

When we divide an object into four pieces of the same size, we call each piece one-fourth.


1
$\frac{1}{2}$ $\frac{1}{2}$
$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$
$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$

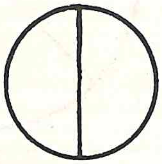


Copy each problem and fill in the blanks.

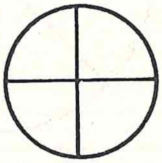
1. There are __2__ halves in 1 whole.
2. There are __4__ fourths in 1 whole.
3. There are __8__ eighths in 1 whole.
4. In one half there are __2__ fourths.
5. In one half there are __4__ eighths.

Copy each problem and color the correct part of each picture.

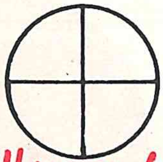
⑥ $\frac{1}{2}$



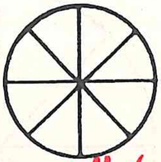
⑧ $\frac{2}{4}$



⑦ $\frac{1}{4}$



⑨ $\frac{2}{8}$



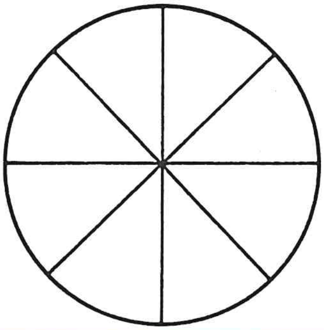
Answers will vary; however, a correct answer will be accepted only if directions are followed as shown.

When we divide an object into eight pieces of the same size, we call each piece one-eighth.

Copy each problem and color the correct part of each picture.

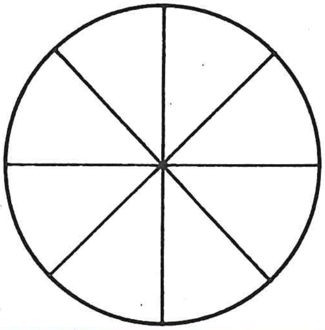
①

$\frac{1}{8}$



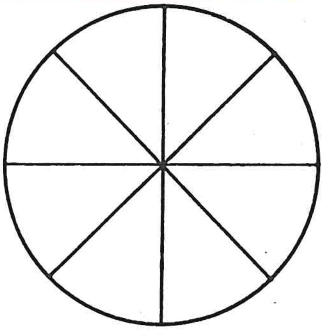
②

$\frac{3}{8}$



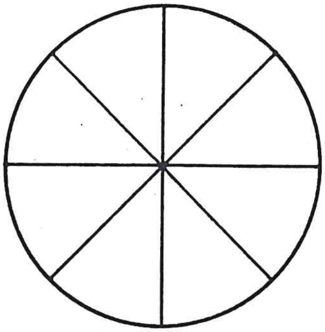
③

$\frac{5}{8}$



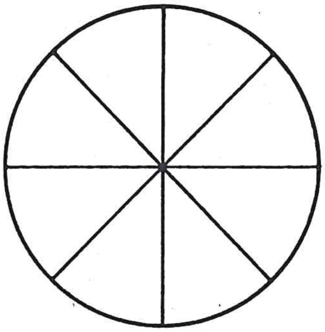
④

$\frac{7}{8}$



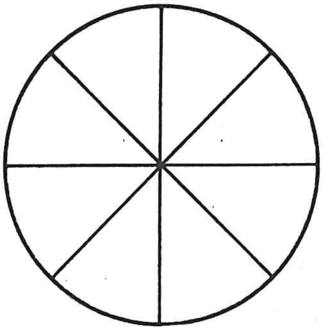
⑤

$\frac{2}{8}$



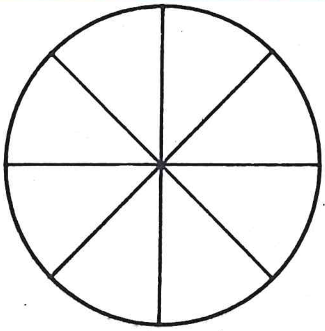
⑥

$\frac{4}{8}$



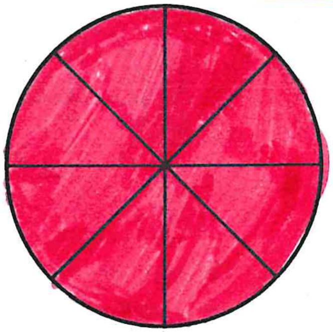
⑦

$\frac{6}{8}$

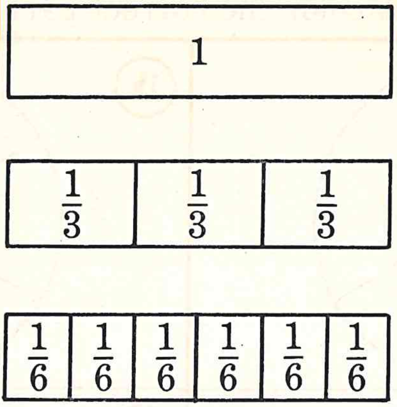


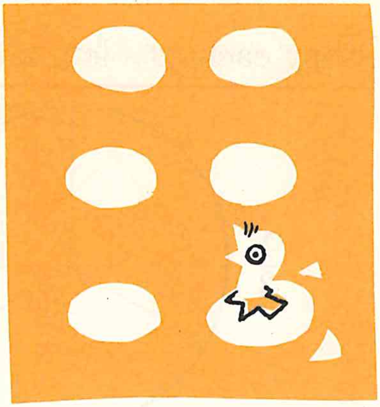
⑧

$\frac{8}{8}$



Answers in Problems 1-7 will vary; however, a correct answer will be accepted only if directions are followed as shown.


1
$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$
$\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$

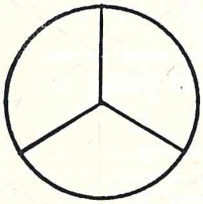


Copy each problem and fill in the blanks.

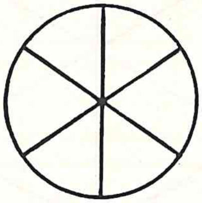
1. There are 3 thirds in a whole.
2. There are 6 sixths in a whole.
3. In one third there are 2 sixths.

Copy each problem and color the correct part of each picture.

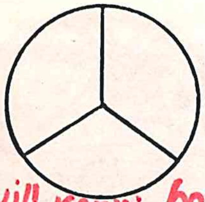
④ $\frac{1}{3}$



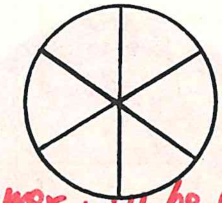
⑥ $\frac{2}{6}$



⑤ $\frac{2}{3}$



⑦ $\frac{4}{6}$



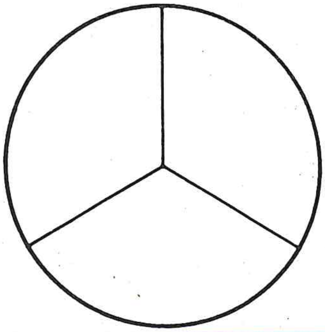
Answers will vary; however, a correct answer will be accepted only if directions are followed as shown.

When we divide an object into six pieces of the same size, we call each piece one-sixth.

Copy each problem and color the correct part of each picture.

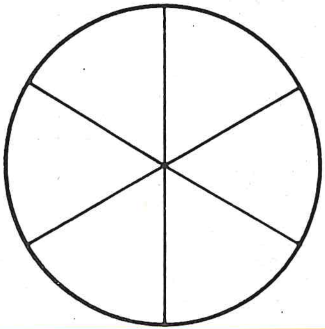
1a

$\frac{1}{3}$



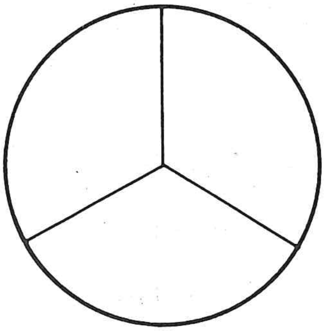
1b

$\frac{2}{6}$



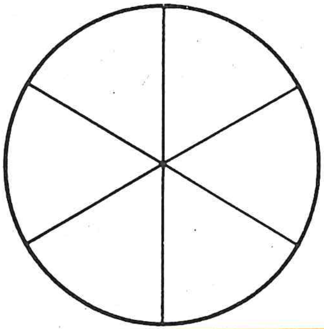
2a

$\frac{2}{3}$



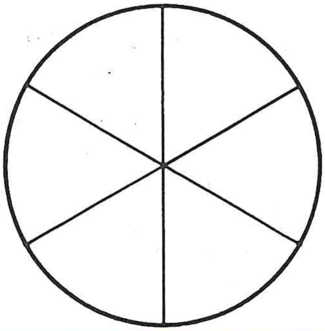
2b

$\frac{4}{6}$



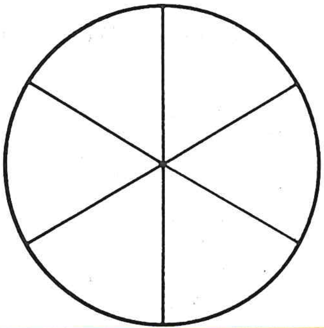
3

$\frac{3}{6}$



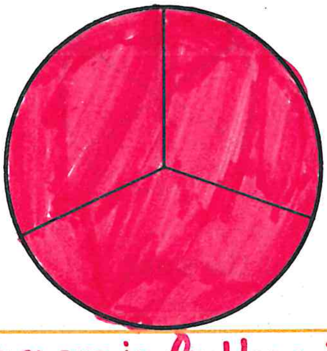
4

$\frac{5}{6}$



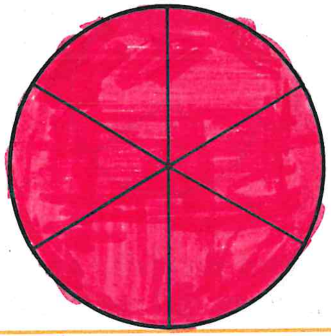
5a

$\frac{3}{3}$



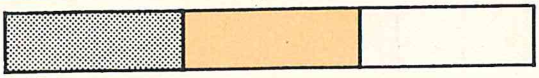
5b

$\frac{6}{6}$

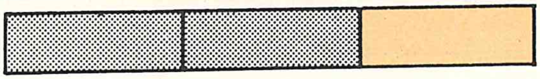


Answers in Problems 1a - 4 will vary; however, a correct answer will be accepted only if directions are followed as shown.

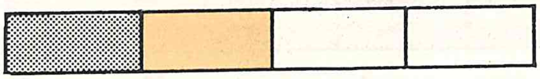
Copy and complete each equation.



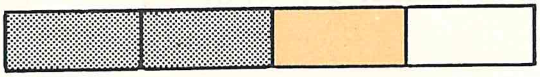
① $\frac{1}{3} + \frac{1}{3} = \square$ $\frac{2}{3}$



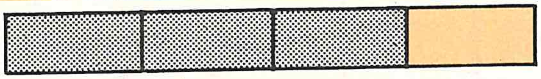
② $\frac{2}{3} + \frac{1}{3} = \square$ $\frac{3}{3}$ or 1



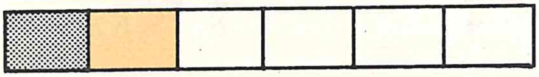
③ $\frac{1}{4} + \frac{1}{4} = \square$ $\frac{2}{4}$ or $\frac{1}{2}$



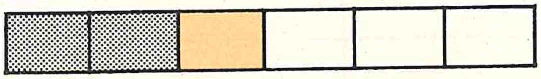
④ $\frac{2}{4} + \frac{1}{4} = \square$ $\frac{3}{4}$



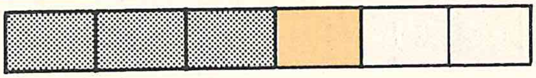
⑤ $\frac{3}{4} + \frac{1}{4} = \square$ $\frac{4}{4}$ or 1



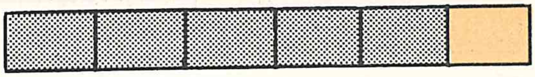
⑥ $\frac{1}{6} + \frac{1}{6} = \square$ $\frac{2}{6}$ or $\frac{1}{3}$



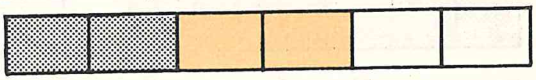
⑦ $\frac{2}{6} + \frac{1}{6} = \square$ $\frac{3}{6}$ or $\frac{1}{2}$



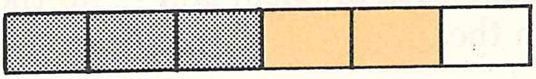
⑧ $\frac{3}{6} + \frac{1}{6} = \square$ $\frac{4}{6}$ or $\frac{2}{3}$



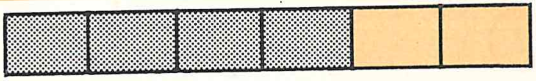
⑨ $\frac{5}{6} + \frac{1}{6} = \square$ $\frac{6}{6}$ or 1



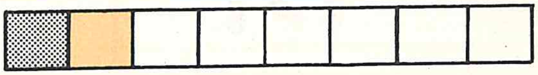
⑩ $\frac{2}{6} + \frac{2}{6} = \square$ $\frac{4}{6}$ or $\frac{2}{3}$



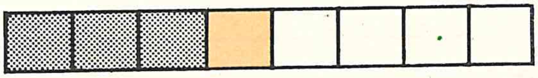
⑪ $\frac{3}{6} + \frac{2}{6} = \square$ $\frac{5}{6}$



⑫ $\frac{4}{6} + \frac{2}{6} = \square$ $\frac{6}{6}$ or 1

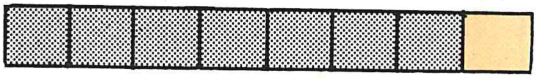


⑬ $\frac{1}{8} + \frac{1}{8} = \square$ $\frac{2}{8}$ or $\frac{1}{4}$

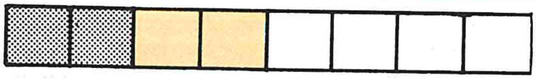


⑭ $\frac{3}{8} + \frac{1}{8} = \square$ $\frac{4}{8}$ or $\frac{1}{2}$

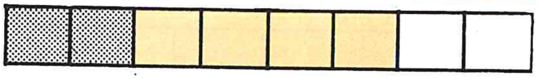
Copy and complete each equation.



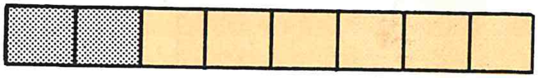
① $\frac{7}{8} + \frac{1}{8} = \square$ $\frac{8}{8}$ or 1



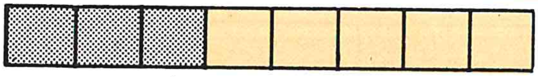
② $\frac{2}{8} + \frac{2}{8} = \square$ $\frac{4}{8}$ or $\frac{1}{2}$



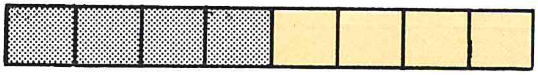
③ $\frac{2}{8} + \frac{4}{8} = \square$ $\frac{6}{8}$ or $\frac{3}{4}$



④ $\frac{2}{8} + \frac{6}{8} = \square$ $\frac{8}{8}$ or 1



⑤ $\frac{3}{8} + \frac{5}{8} = \square$ $\frac{8}{8}$ or 1



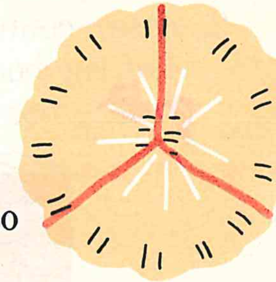
⑥ $\frac{4}{8} + \frac{4}{8} = \square$ $\frac{8}{8}$ or 1

Copy each problem and write the correct sign, >, =, or <, in the ○.

	A	B	C
⑦	$\frac{1}{3} > \frac{1}{4}$	$\frac{1}{6} < \frac{1}{4}$	$\frac{2}{4} = \frac{1}{2}$
⑧	$\frac{2}{4} > \frac{1}{8}$	$\frac{1}{3} > \frac{1}{4}$	$\frac{3}{8} < \frac{5}{8}$
⑨	$\frac{2}{6} = \frac{1}{3}$	$\frac{1}{2} > \frac{1}{6}$	$\frac{4}{8} = \frac{2}{4}$
⑩	$\frac{1}{8} < \frac{1}{6}$	$\frac{1}{6} < \frac{2}{6}$	$\frac{3}{8} < \frac{4}{8}$

Vork the story problems.

1. Sally baked an apple pie. She cut her pie into 3 pieces of the same size. Show how she divided the pie.
Each piece is $\frac{1}{3}$ of the whole pie.



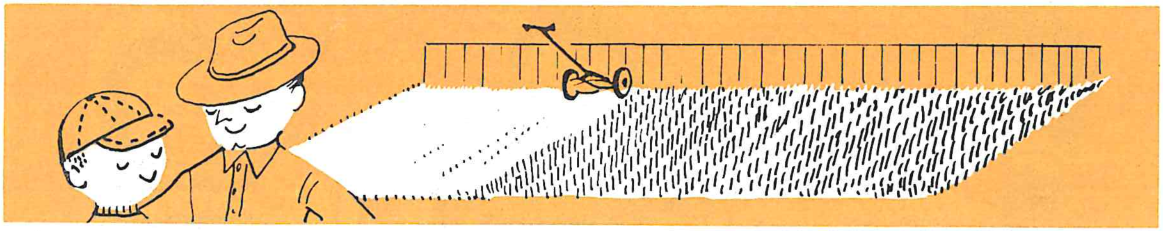
2. Ann baked a cherry pie. She cut her pie into 6 pieces of the same size. Each piece of Ann's pie is $\frac{1}{6}$ of her whole pie.
Ann ate $\frac{1}{6}$ of the pie, and her sister ate $\frac{1}{6}$ of the pie. Show how much they ate.

Answers will vary in Problem 2.

3. Mary baked a berry pie. Her pie was cut into 8 pieces of the same size. Two of the pieces of this pie are $\frac{2}{8}$ or $\frac{1}{4}$ of the whole pie.

4. Mother, Father, and Mary each ate $\frac{1}{8}$ of the pie. They ate $\frac{3}{8}$ of the whole pie.
Show how much of the pie was not eaten.

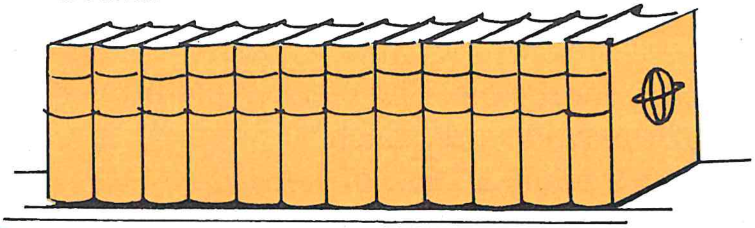
Answers will vary in Problem 4.



Work the story problems.

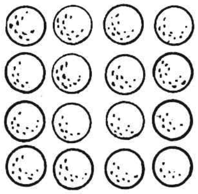
1. David helped Father in the yard. He mowed $\frac{1}{3}$ of the lawn before lunch. After lunch he still had $\frac{2}{3}$ of the job to do.

2. Susan counted 12 books on the shelf. She took down $\frac{1}{4}$ of the books to read. Susan planned to read 9 ~~8~~ books.



~~2~~3 fourths of the books still remained on the shelf. (Note: "Three" can also be accepted as a word.)

3. Jimmy found 16 golf balls. He gave $\frac{1}{8}$ of the balls to Peter. He gave Peter 2 balls. He still had 7 eighths of the golf balls for himself.



4. Ray's cat ate $\frac{1}{6}$ of a can of cat food each day. In 5 days the cat ate $\frac{5}{6}$ of the can of food. It took 12 days for the cat to eat 2 cans of food.

$$\begin{array}{r} 90 + 7 \\ +(30 + 6) \\ \hline 120 + 13 = 10 + 30 + 3 = \underline{133} \end{array}$$

$$\begin{array}{r} ^{1}\;\; \\ 9\;7 \\ +3\;6 \\ \hline 1\;3\;3 \end{array}$$

Find the sums.

	A	B	C	D	E	F
①	76 +58 134	83 +47 130	25 +86 111	87 +57 144	86 +96 182	34 +89 123
②	86 +65 151	56 +87 143	68 +47 115	73 +49 122	76 +89 165	78 +38 116
③	47 +86 133	52 +59 111	87 +39 126	85 +27 112	53 +68 121	64 +79 143
④	45 +79 124	34 +66 100	67 +78 145	25 +76 101	73 +49 122	68 +84 152
⑤	48 +98 146	57 +79 136	68 +59 127	64 +68 132	15 +99 114	85 +78 163
⑥	68 +96 164	84 +57 141	47 +65 112	57 +57 114	57 +46 103	63 +48 111
⑦	68 +33 101	42 +59 101	36 +68 104	18 +87 105	72 +38 110	78 +29 107

$$\begin{array}{rrrrrrrrrrrrrr} & 500 & + & 60 & + & 8 & & & & & & & & \\ +(& 200 & + & 50 & + & 7) & & & & & & & & \\ \hline & 700 & + & 110 & + & 15 & = & 700 & + & 120 & + & 5 & & \\ & & & & & & = & 800 & + & 20 & + & 5 & = & \underline{825} \end{array}$$

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 5\ 6\ 8 \\ +2\ 5\ 7 \\ \hline 8\ 2\ 5 \end{array}$$

Find the sums.

	A	B	C	D
①	$\begin{array}{r}336\\+394\\\hline 730\end{array}$	$\begin{array}{r}269\\+\ 75\\\hline 344\end{array}$	$\begin{array}{r}756\\+165\\\hline 921\end{array}$	$\begin{array}{r}293\\+248\\\hline 541\end{array}$
②	$\begin{array}{r}592\\+369\\\hline 961\end{array}$	$\begin{array}{r}468\\+493\\\hline 961\end{array}$	$\begin{array}{r}348\\+279\\\hline 627\end{array}$	$\begin{array}{r}286\\+348\\\hline 634\end{array}$
③	$\begin{array}{r}654\\+197\\\hline 851\end{array}$	$\begin{array}{r}487\\+268\\\hline 755\end{array}$	$\begin{array}{r}575\\+\ 57\\\hline 632\end{array}$	$\begin{array}{r}179\\+278\\\hline 457\end{array}$
④	$\begin{array}{r}187\\+486\\\hline 673\end{array}$	$\begin{array}{r}358\\+185\\\hline 543\end{array}$	$\begin{array}{r}347\\+599\\\hline 946\end{array}$	$\begin{array}{r}276\\+646\\\hline 922\end{array}$
⑤	$\begin{array}{r}139\\+\ 87\\\hline 226\end{array}$	$\begin{array}{r}554\\+198\\\hline 752\end{array}$	$\begin{array}{r}269\\+\ 63\\\hline 332\end{array}$	$\begin{array}{r}283\\+567\\\hline 850\end{array}$

#17

Find the sums.

	A	B	C	D
①	367 +453 820	654 +268 922	453 +288 741	539 + 74 613
②	784 + 89 873	489 +361 850	876 + 99 975	296 + 94 390
③	558 + 69 627	356 +278 634	795 + 65 860	342 + 99 441
④	376 +346 722	239 +187 426	888 + 65 953	236 +397 633
⑤	689 + 98 787	145 +679 824	756 + 84 840	599 +275 874
⑥	488 +142 630	158 + 75 233	487 + 75 562	179 +588 767

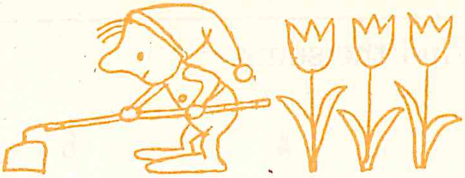
$$\begin{array}{r} 300 + 0 + 6 \\ +(100 + 90 + 4) \\ \hline 400 + 90 + 10 = 400 + 100 + 0 \\ = 500 + 0 + 0 = \underline{500} \end{array}$$

$$\begin{array}{r} {}^{1}\,{}^{1} \\ 306 \\ +194 \\ \hline 500 \end{array}$$

Find the sums.

	A	B	C	D	E
①	473 +259 732	652 +248 900	213 +687 900	895 + 47 942	668 + 55 723
②	575 + 76 651	374 + 98 472	458 +393 851	368 +394 762	729 + 71 800
③	269 +583 852	32 +368 400	364 +477 841	783 +198 981	602 + 98 700
④	167 + 64 231	648 + 56 704	269 +445 714	824 + 76 900	492 +189 681
⑤	276 373 +251 900	177 194 +236 607	339 286 +122 747	254 436 +257 947	258 43 +554 855

Find the sums.



	A	B	C	D	E
①	634 59 +113 806	94 304 +307 705	107 376 +145 628	446 74 +262 782	355 67 +544 966
②	116 485 +129 730	772 106 + 88 966	261 176 205 +123 765	155 376 407 + 40 978	358 89 350 +103 900
③	85 590 39 +213 927	124 79 81 +502 786	67 307 280 +214 868	288 36 202 +351 877	352 99 403 + 32 886
④	487 +285 772	256 +189 445	487 +158 645	107 +293 400	485 +436 921
⑤	198 +702 800	387 +263 650	386 +348 734	265 +247 512	158 +357 515

Find the sums.

	A	B	C	D	E
①	257 +496 753	247 +387 634	367 +159 526	637 +294 931	246 +576 822
②	348 +569 917	721 +189 910	643 +197 840	523 +398 921	337 +468 805
③	255 +647 902	316 + 88 404	367 +235 602	368 +567 935	475 +325 800
④	148 +458 606	564 +247 811	178 +596 774	554 +168 722	486 +357 843
⑤	767 +196 963	568 +354 922	624 +279 903	544 +356 900	355 +348 703
⑥	287 +537 814	267 +333 600	388 +429 817	825 + 79 904	287 +414 701
⑦	767 + 78 845	176 +658 834	478 +497 975	187 +156 343	519 +398 717

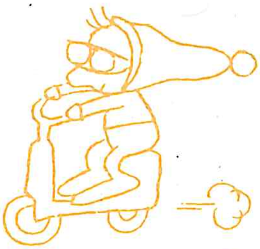
$$\begin{array}{rcr} 700 + 60 + 3 & = & 700 + 50 + 13 \\ -(400 + 80 + 5) & = & -(400 + 80 + 5) \\ \hline \end{array}$$

$$\begin{array}{r} 600 + 150 + 13 \\ -(400 + 80 + 5) \\ \hline 200 + 70 + 8 = \underline{278} \end{array}$$

$$\begin{array}{r} \overset{6}{\cancel{7}}\,{}^{1}\overset{5}{\cancel{6}}\,3 \\ -4\,8\,5 \\ \hline 2\,7\,8 \end{array}$$

Find the differences.

	A	B	C	D
①	$\begin{array}{r}644\\-257\\\hline 387\end{array}$	$\begin{array}{r}432\\-268\\\hline 164\end{array}$	$\begin{array}{r}725\\-376\\\hline 349\end{array}$	$\begin{array}{r}546\\-147\\\hline 399\end{array}$
②	$\begin{array}{r}651\\-479\\\hline 172\end{array}$	$\begin{array}{r}767\\-298\\\hline 469\end{array}$	$\begin{array}{r}538\\-359\\\hline 179\end{array}$	$\begin{array}{r}423\\-129\\\hline 294\end{array}$
③	$\begin{array}{r}577\\-279\\\hline 298\end{array}$	$\begin{array}{r}662\\-385\\\hline 277\end{array}$	$\begin{array}{r}964\\-669\\\hline 295\end{array}$	$\begin{array}{r}855\\-358\\\hline 497\end{array}$
④	$\begin{array}{r}642\\-189\\\hline 453\end{array}$	$\begin{array}{r}825\\-269\\\hline 556\end{array}$	$\begin{array}{r}713\\-457\\\hline 256\end{array}$	$\begin{array}{r}921\\-746\\\hline 175\end{array}$



Find the differences.

	A	B	C	D
1	561 −179 382	952 −368 584	834 −579 255	627 −368 259
2	446 −159 287	768 −489 279	573 −298 275	642 −475 167
3	951 −675 276	845 −489 356	735 −398 337	931 −557 374
4	663 −266 397	571 −378 193	921 −466 455	853 −384 469
5	452 −254 198	841 −294 547	322 −139 183	922 −227 695
6	757 −298 459	633 −194 439	741 −549 192	863 −677 186

#35

$$\begin{array}{r} 500 + 0 + 0 = \\ -(300 + 60 + 8) = \\ \hline \end{array} \quad \begin{array}{r} 400 + 100 + 0 \\ -(300 + 60 + 8) \\ \hline \end{array}$$

$$\begin{array}{r} 400 + 90 + 10 \\ -(300 + 60 + 8) \\ \hline 100 + 30 + 2 = \underline{132} \end{array}$$

$$\begin{array}{r} \overset{4}{\cancel{5}}\ \overset{9}{{}^{1}\cancel{0}}\ {}^{1}0 \\ -3\ 6\ 8 \\ \hline 1\ 3\ 2 \end{array}$$

Find the differences.

	A	B	C	D	E
①	803 −248 555	460 −285 175	901 −837 64	601 −259 342	750 −573 177
②	500 −176 324	606 −319 287	880 −494 386	300 −169 131	407 −159 248
③	800 −371 429	950 −298 652	500 −382 118	704 −429 275	750 −386 364
④	600 −417 183	806 −528 278	670 −393 277	704 −258 446	600 −274 326

Find the differences.

	A	B	C	D	E
①	830 −575 255	900 −419 481	740 −178 562	500 −261 239	807 −548 259
②	620 −192 428	800 −487 313	901 −536 365	720 −386 334	505 −346 159
③	700 −568 132	604 −426 178	940 −259 681	870 −275 195	400 −189 211
④	505 −197 398	730 −467 263	900 −371 529	401 −217 184	330 −193 137
⑤	803 −624 179	320 −168 152	415 −347 168	974 −286 688	853 −567 286
⑥	727 −389 338	540 −384 156	901 −468 433	764 −175 589	606 −128 478
⑦	545 −279 266	763 −296 467	935 −688 247	314 −279 35	932 −845 87

#37

Find the differences.

	A	B	C	D	E
①	718 −669 49	923 −779 144	823 −635 188	712 −529 183	821 −249 572
②	711 −435 276	831 −765 66	608 −489 119	553 −377 176	424 −286 138
③	827 −369 458	936 −387 549	950 −585 365	860 −483 377	756 −169 587
④	925 −479 446	840 −277 563	723 −245 478	971 −286 685	934 −648 286
⑤	732 −495 237	821 −697 124	714 −625 89	604 −369 235	811 −198 613
⑥	812 −543 269	971 −783 188	983 −185 798	956 −887 69	740 −569 171

Find the sums and differences.

	A	B	C	D	E
①	807 −528 279	183 +627 810	261 +359 620	392 −198 194	746 −459 287
②	655 −396 259	583 −297 286	167 +798 965	464 +468 922	722 +178 900
③	476 −297 199	662 −485 177	358 +393 751	263 +479 742	782 −583 199
④	574 +396 970	654 −286 368	834 − 68 766	479 +244 723	551 −376 135
⑤	598 +267 865	731 −388 343	632 −159 473	426 +398 824	783 −214 569
⑥	228 +376 604	293 +429 722	643 −259 384	548 −169 379	327 +578 905
⑦	436 −287 149	772 −577 195	235 +689 924	192 +638 830	821 −469 352

Find the sums and differences.

	A	B	C	D	E
①	369 +361 730	765 −386 279	247 +587 834	128 +793 921	671 −387 284
②	655 +186 841	472 −195 297	965 −499 466	568 +257 825	864 −569 295
③	364 +439 803	479 +264 743	743 −487 256	239 +276 515	553 −276 277
④	278 +254 532	396 +154 550	981 −286 695	760 −286 474	802 −156 646
⑤	533 −397 136	469 +234 703	347 +466 813	535 +298 833	608 −239 369
⑥	752 −368 384	283 +368 651	352 +398 750	471 +198 669	264 +468 732
⑦	706 −429 277	841 −387 454	936 −657 279	954 −397 557	193 +567 760

Copy each problem and write the correct numeral in each ☐.

	A	B	C	D
①	$\begin{array}{r} 28\boxed{8} \\ +\,3\boxed{6}8 \\ \hline \boxed{6}56 \end{array}$	$\begin{array}{r} 532 \\ -\,\boxed{2}\boxed{3}\boxed{6} \\ \hline 296 \end{array}$	$\begin{array}{r} \boxed{8}\boxed{5}\boxed{1} \\ -\,594 \\ \hline 257 \end{array}$	$\begin{array}{r} \boxed{4}67 \\ +\,3\boxed{3}5 \\ \hline 80\boxed{2} \end{array}$
②	$\begin{array}{r} 5\boxed{8}8 \\ +\,19\boxed{7} \\ \hline \boxed{7}85 \end{array}$	$\begin{array}{r} \boxed{3}\boxed{4}\boxed{4} \\ +\,387 \\ \hline 731 \end{array}$	$\begin{array}{r} 80\boxed{5} \\ -\,3\boxed{5}8 \\ \hline \boxed{4}47 \end{array}$	$\begin{array}{r} \boxed{7}41 \\ -\,5\boxed{6}8 \\ \hline 17\boxed{3} \end{array}$
③	$\begin{array}{r} 850 \\ -\,\boxed{4}\boxed{5}\boxed{3} \\ \hline 397 \end{array}$	$\begin{array}{r} \boxed{6}72 \\ -\,3\boxed{9}8 \\ \hline 27\boxed{4} \end{array}$	$\begin{array}{r} \boxed{5}\boxed{6}\boxed{4} \\ +\,286 \\ \hline 850 \end{array}$	$\begin{array}{r} 17\boxed{9} \\ +\,6\boxed{4}8 \\ \hline \boxed{8}27 \end{array}$
④	$\begin{array}{r} \boxed{2}86 \\ +\,4\boxed{1}9 \\ \hline 70\boxed{5} \end{array}$	$\begin{array}{r} \boxed{6}\boxed{5}\boxed{3} \\ -\,269 \\ \hline 384 \end{array}$	$\begin{array}{r} 626 \\ -\,\boxed{4}\boxed{7}\boxed{7} \\ \hline 149 \end{array}$	$\begin{array}{r} \boxed{1}64 \\ +\,77\boxed{9} \\ \hline 9\boxed{4}3 \end{array}$
⑤	$\begin{array}{r} 175 \\ +\,\boxed{3}\boxed{6}\boxed{6} \\ \hline 541 \end{array}$	$\begin{array}{r} 70\boxed{0} \\ -\,4\boxed{2}6 \\ \hline \boxed{2}74 \end{array}$	$\begin{array}{r} \boxed{5}\boxed{3}\boxed{8} \\ +\,373 \\ \hline 911 \end{array}$	$\begin{array}{r} \boxed{5}27 \\ -\,3\boxed{9}8 \\ \hline 12\boxed{9} \end{array}$
⑥	$\begin{array}{r} 99\boxed{0} \\ -\,5\boxed{9}4 \\ \hline \boxed{3}96 \end{array}$	$\begin{array}{r} 543 \\ -\,\boxed{1}\boxed{8}\boxed{7} \\ \hline 356 \end{array}$	$\begin{array}{r} \boxed{3}59 \\ +\,2\boxed{8}5 \\ \hline 64\boxed{4} \end{array}$	$\begin{array}{r} 18\boxed{9} \\ +\,4\boxed{2}6 \\ \hline \boxed{6}15 \end{array}$

#45

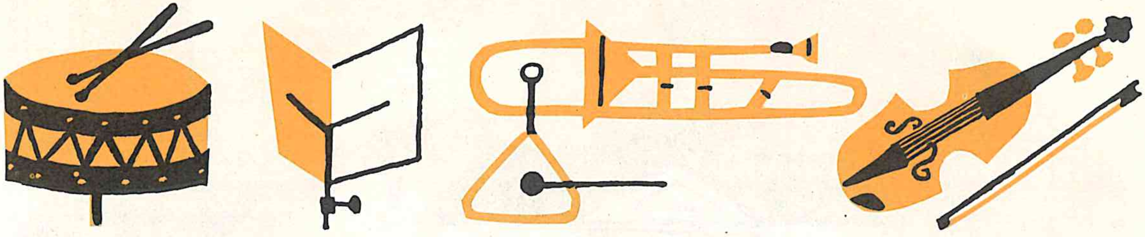
ind the sums and differences.

	A	B	C	D
①	387 +478 865	284 +365 649	656 −365 291	544 −486 58
②	659 +272 931	975 −576 399	567 +343 910	873 −685 188
③	793 −289 504	384 +606 990	838 −256 582	434 +275 709
④	286 +597 883	326 +398 724	858 −759 99	607 −599 8
⑤	500 −387 113	805 −706 99	402 +498 900	305 +276 581

Find the sums and differences.

	A	B	C	D
①	226 +695 921	757 −384 173	864 −788 76	655 +297 952
②	746 −285 461	688 +307 995	877 −699 178	451 +249 700
③	523 +347 870	905 −796 109	584 +329 913	600 −326 274
④	429 −237 192	437 +545 982	380 +589 969	761 −754 7
⑤	303 −175 128	243 +479 722	285 +385 770	804 −789 15
⑥	641 +168 809	900 −241 659	402 +488 890	511 −406 15

STORY PROBLEMS



NORTH SCHOOL GIVES A CONCERT

Work the story problems.

1. At North School 54 children played in the orchestra. Twenty-seven boys played in the orchestra. 27 members of the orchestra were girls. (Note: "Twenty-seven" can also be accepted as a word.)
2. The orchestra played a concert for all of the children in the school. The 238 children on the first floor and the 197 children on the second floor attended. 435 children came to the concert. (Note: "Four hundred thirty-five can also be accepted as a word.)
3. When the children came to the concert, only 398 chairs were set up. 37 more chairs were needed so that every child could be seated. (Note: "Thirty-seven can also be accepted as a word.)
4. The program listed the names of 54 members of the orchestra. In the string section were 29 children. 25 members of the orchestra did not play string instruments. (Note: "Twenty-five can also be accepted as a word.)
5. The leader asked if any of the children in the audience played instruments. He discovered that 29 of these children played violins, and 36 played other instruments. With the 54 children in the orchestra, 119 children played instruments.

WEST SCHOOL

Work the story problems.

1. In June, West School had 428 children.
During the summer 39 children moved away.
In September 389 children returned to West School.

2. On the first day of school, 57 new children
enrolled. 446 children now attended West School.
(Note: "Four hundred forty-six can also be accepted as a word.)

3. The first grade had 62 pupils, the second grade
had 47 pupils, and the third grade had 59 pupils.
There were 168 children in the first three grades.

4. The children helped Miss Parks count the books
for the third grade. They counted 29 spellers, 32
readers, 30 science books, and 31 arithmetic books.
They helped Miss Parks count 122 books.

5. Of the 446 children who went to West School,
289 rode the bus. 157 children did not come
to school by bus. (Note: "One hundred fifty-seven
can also be accepted as a word.)

A VISIT TO THE POST OFFICE

Work the story problems.

1. While visiting the post office the third grade class saw mailmen sort 389 letters and 274 packages. These 663 pieces of mail were put into mail bags.

2. One mailman delivered 625 letters yesterday. Today he delivered 488 letters. Yesterday he delivered 137 more letters than today.

3. A postal clerk showed the children a roll of 366 stamps. A new roll held 500 stamps. 134 stamps had been sold from this roll. (Note: "One hundred thirty-four can also be accepted as a word.)

4. In one basket lay 223 postcards for out-of-town delivery. In another basket 411 postcards lay ready for city delivery. 188 fewer cards were going out of town than were staying in the city. (Note: "One hundred eighty-eight can also be accepted as a word.)

5. This month 400 children visited the post office. Last month 299 children came to visit. 111 more children came to the post office this month than last. (Note: "One hundred eleven can also be accepted as a word.)

SENDING MESSAGES

Work the story problems.

1. While studying about ways to send messages, the class discovered that 103 radios, 60 television sets, and 49 telephones were in their homes. They had 43 more radios than TV sets. They had 11 more TV sets than telephones. They had 54 more radios than telephones. (Note: "TV" is the same as television.)
2. Molly sent a message 239 miles by letter. Jack sent a message 328 miles by letter. Jack's message went 89 miles farther than Molly's.
3. The class read about Indians sending messages by smoke signals. One message told about a tribe of 87 Indians going to war with a tribe of 103 Indians. There were 16 more Indians in one tribe than in the other.
4. Ellen called her aunt 800 miles away in New York. Martha called her grandmother 392 miles away in Florida. Ellen's call traveled 408 miles farther than Martha's.

TIME

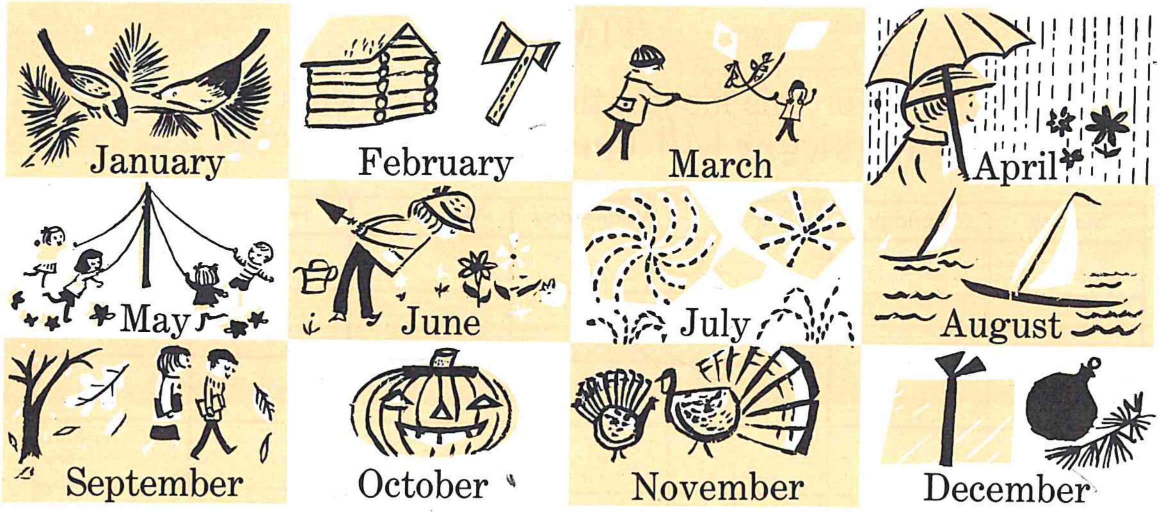
Make a calendar for this month, then write answers to the questions. (Answers will vary.)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

1. Each week has 7 days.
2. The name of the first day of the week is Sunday.
3. The name of the last day of the week is Saturday.
4. The name of the day that follows Monday is Tuesday.
5. Wednesday is the name of the day that comes after Tuesday.
6. In two weeks there are 14 days.
7. In four weeks there are 28 days.
8. The name of the first day of this month is ______.
9. There are ______ days in this month.
10. The tenth day of this month comes on a ______.
11. Twelve days from today will be ______.
12. ______ is the name of the last day in this month.

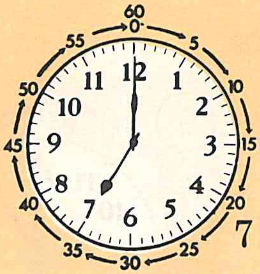
(Answers in Problems 8-12 will vary.)

There are seven days in one week.



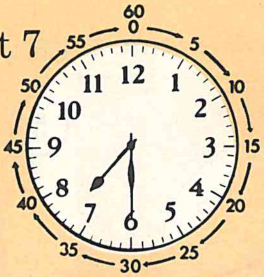
1. In one year there are 12 months.
2. In one year there are 365 days. (Note: In a leap year, there are 366 days. See Problem 3.)
3. There are 366 days in a leap year.
4. January is the name of the first month of the year.
5. The name of the last month of the year is December.
6. From the first day of May to the first day of July there are 3 months.
7. From the first day of March to the last day of December there are 9 months.
8. From the last day of January to the first day of March there are three months.
9. The month of April comes before the month of May.
10. The month of November follows the month of December.

There are 12 months in one year.
There are 365 days in one year.



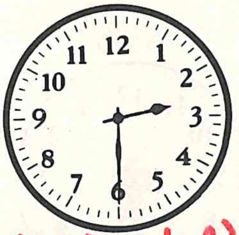
7 o'clock
7:00

half past 7
7:30



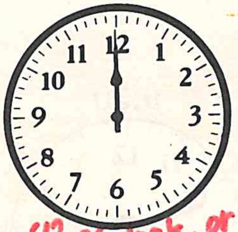
Vrite the numerals for the time shown on each clockface.

1



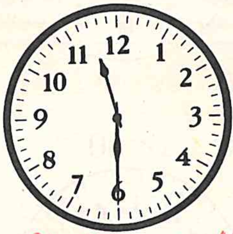
:30 (half past 2)

2



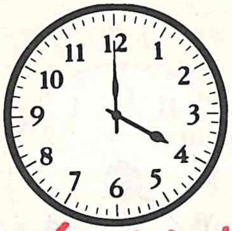
2:00 (12 o'clock, or 12 noon)

3



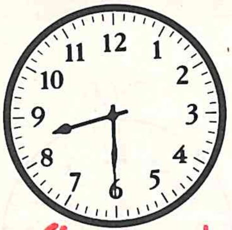
11:30 (half past 11)

4



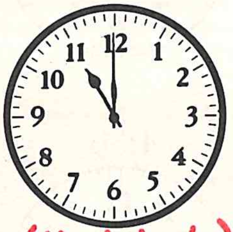
4:00 (4 o'clock)

5



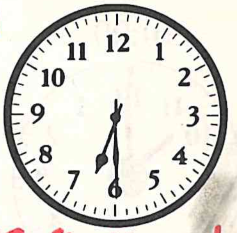
8:30 (half past 8)

6



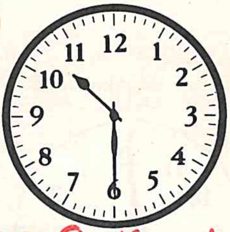
11:00 (11 o'clock)

7



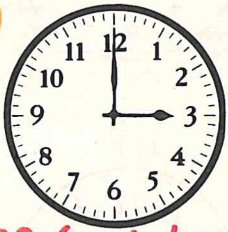
6:30 (half past 6)

8



10:30 (half past 10)

9

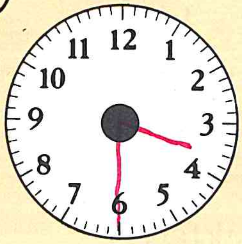


3:00 (3 o'clock)

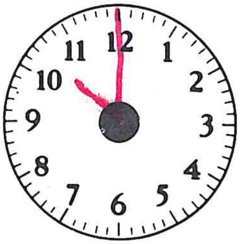
There are 60 minutes in one hour.
When the longer hand on the clock moves from one numeral to the next numeral, five minutes have passed.

Show the given time on a copy of a clockface.

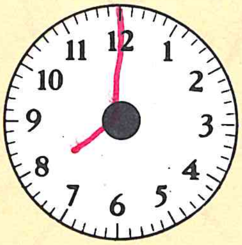
① 3:30



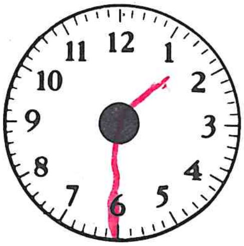
② 10:00



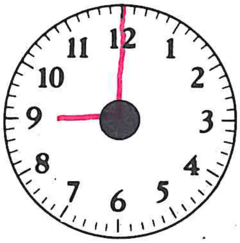
③ 8:00



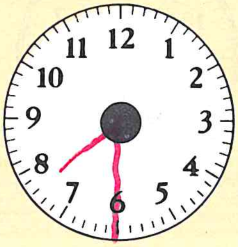
④ 1:30



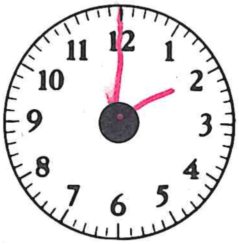
⑤ 9:00



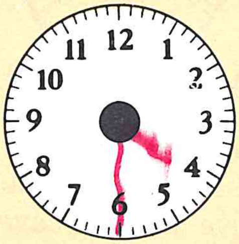
⑥ 7:30



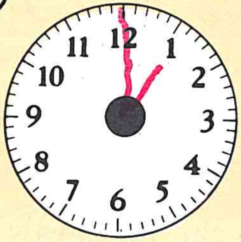
⑦ 2:00



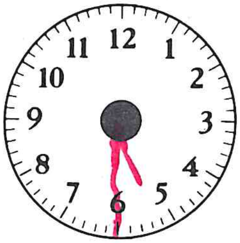
⑧ 4:30



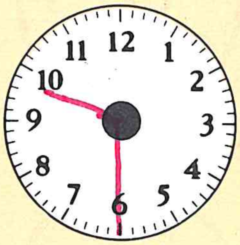
⑨ 1:00



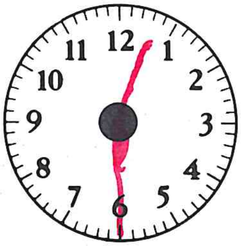
⑩ 5:30

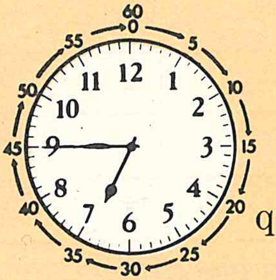


⑪ 9:30



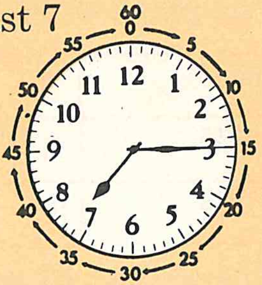
⑫ 12:30



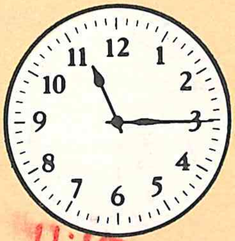


quarter to 7
6:45

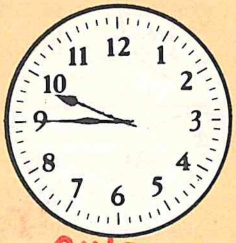
quarter past 7
7:15



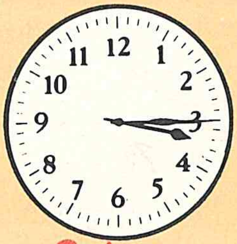
Vrite the numerals for the time shown on each clockface.

① 

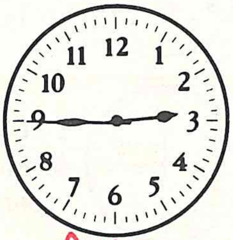
11:15
(quarter past 11)

② 

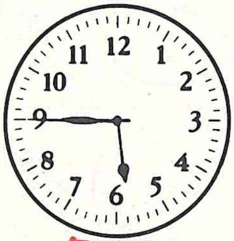
9:45
(quarter to 10)

③ 

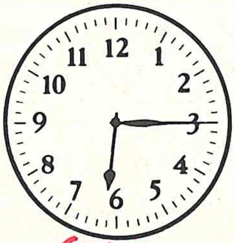
3:15
(quarter past 3)

④ 

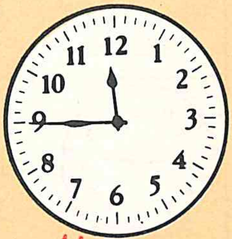
2:45
(quarter to 3)

⑤ 

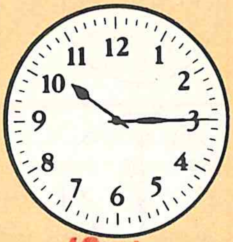
5:45
(quarter to 6)

⑥ 

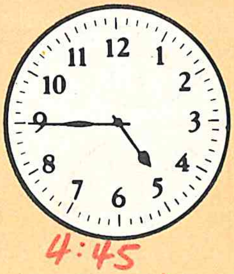
6:15
(quarter past 6)

⑦ 

11:45
(quarter to 12)

⑧ 

10:15
(quarter past 10)

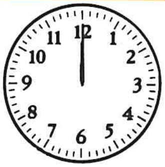
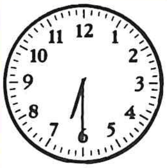
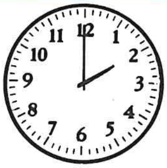
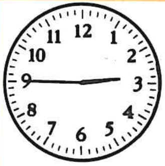
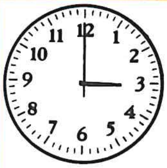
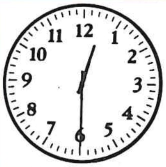
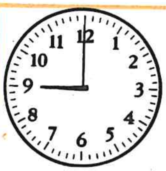
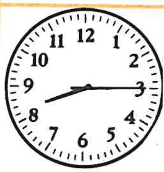
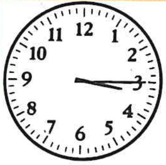
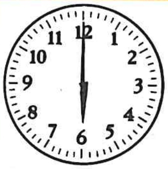
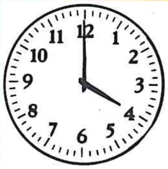
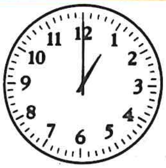
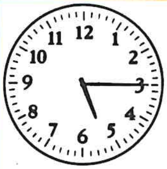
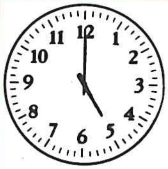
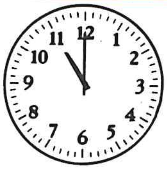
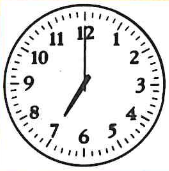
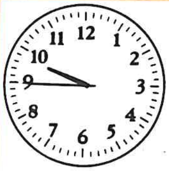
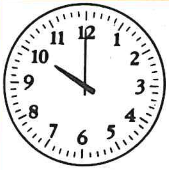
⑨ 

4:45
(quarter to 5)

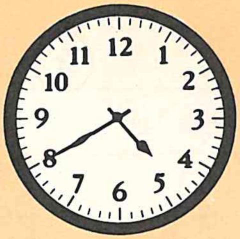
Show the given time on a copy of a clockface.

1	12:45	2	9:15	3	8:45	4	1:45
5	2:15	6	7:45	7	5:15	8	3:45
9	12:15	10	1:15	11	10:45	12	8:15

Show the correct time for each on a copy of a clockface.

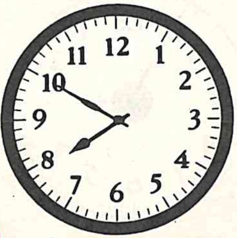
	A	B	C
①	 45 minutes later	 1 hour and 15 minutes later	 2 hours and 15 minutes later
②	 15 minutes later	 1 hour and 45 minutes earlier	 45 minutes earlier
③	 3 hours and 15 minutes later	 $1\frac{1}{2}$ hours later	 $\frac{1}{2}$ hour later
④	 15 minutes earlier	 1 hour and 45 minutes later	 $\frac{1}{2}$ hour earlier
⑤	 45 minutes later	 $1\frac{1}{2}$ hours earlier	 15 minutes earlier
⑥	 1 hour earlier	 45 minutes earlier	 1 hour and 15 minutes earlier

(Note: All answers will be found on the last page of this book.)



4:40
40 minutes past 4
20 minutes to 5

Copy the phrases and fill in the blanks to tell the time shown on each clockface.

①

50 minutes past 8

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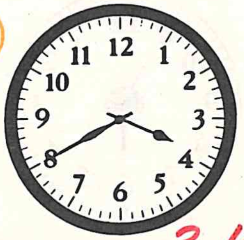
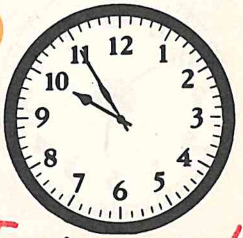
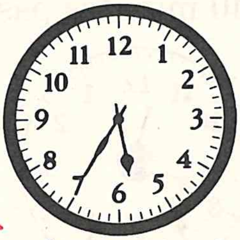
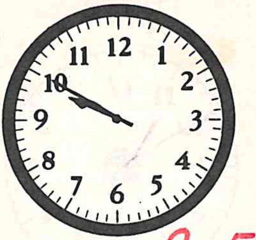
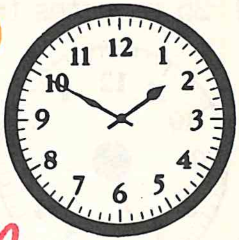
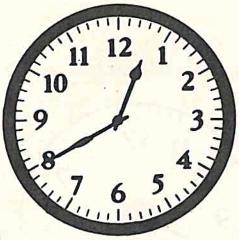

3:40

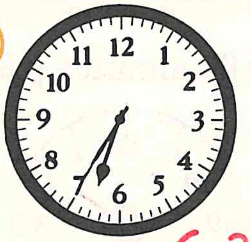
③

5 minutes to 10

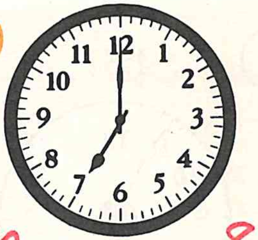
④

35 minutes past 5

⑤

9:50

⑥

10 minutes to 2

⑦

40 minutes past 12

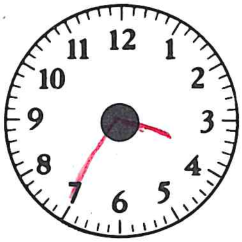
⑧

6:35

⑨

60 minutes to 8

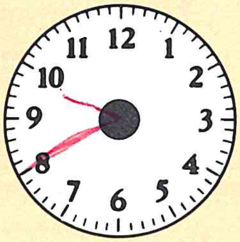
There are different ways to write the time between the half hour and the hour.

Show the given time on a copy of a clockface.

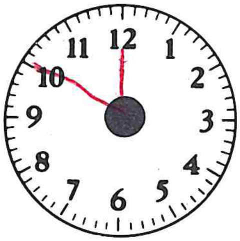
① 35 minutes past 3



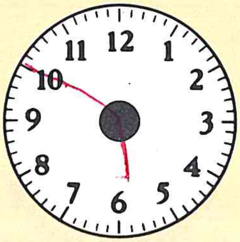
② 9:40



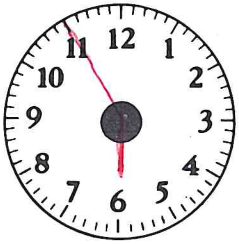
③ 10 minutes to 12



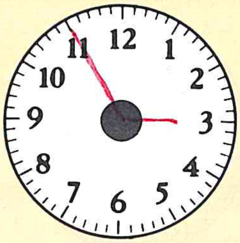
④ 5:50



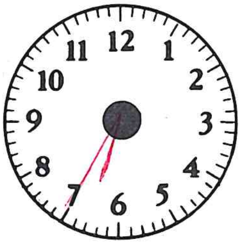
⑤ 5 minutes to 6



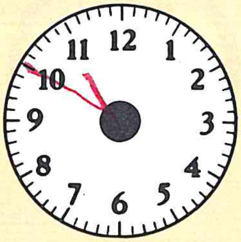
⑥ 2:55



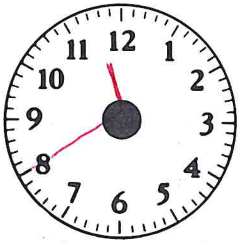
⑦ 25 minutes to 7



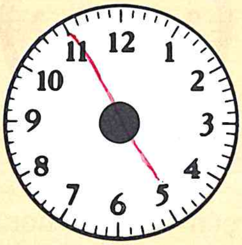
⑧ 10:50



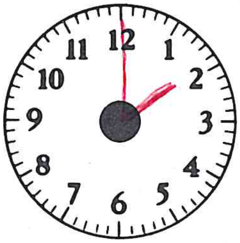
⑨ 40 minutes past 11



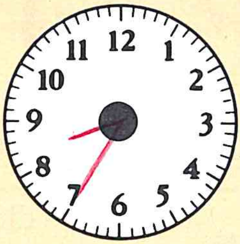
⑩ 4:55



⑪ 60 minutes past 1



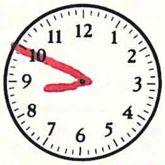
⑫ 8:35

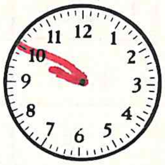


Work the story problems.

1. Tom worked for his neighbor, Mrs. Blake. He began cutting the grass at 10 minutes to 9. He stopped at 9:50. Show these times on copies of two clockfaces.

Time Tom began

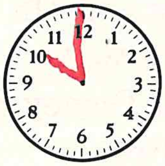


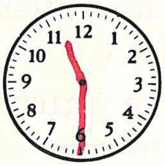


Time Tom stopped

Tom worked for 50 minutes.

2. At 10:00 Tom began to help Mrs. Blake clean out the garage. It took Tom 1½ hours to finish this job. Show these times on copies of two clockfaces.





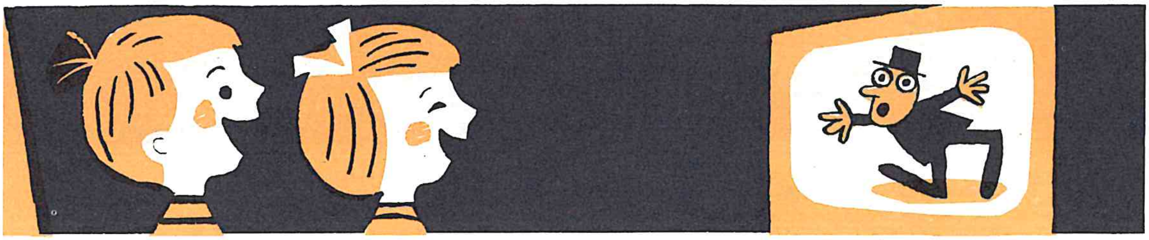
Time Tom finished

He worked for 90 minutes.

3. It was 11:55 when Tom went home. He walked for 15 minutes before he got to his house. It was 12 : 10 when Tom got home.

4. Tom's mother gave him his lunch at 12:30. It took Tom 25 minutes to eat. After lunch Tom rested for ½ hour before he went out to play baseball. Tom went out to play at 1 : 25.

5. At fifteen minutes to six Tom came back into the house. Mother told him that supper would not be ready until a quarter past six. Tom knew that he had to wait 30 minutes or ½ hours before eating. (Note: In the last answer, the "s" in hours is not needed.)



Work the story problems.

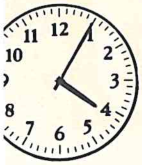
TV PROGRAMS

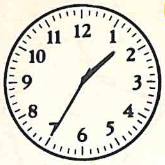
Program	Begins	Ends
Barnaby	4:30	5:00
Funday Funnies	5:00	5:30
Captain Penny	5:00	6:15
Mr. Jingeling	6:15	6:30

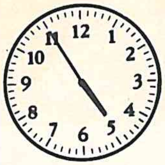
Program	Begins	Ends
Lassie	7:00	7:30
Yogi Bear	7:00	7:30
Bugs Bunny	7:30	8:00
Walt Disney	7:30	8:30

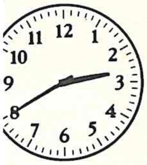
1. Peter made a list of his favorite TV programs. On Monday he watched Barnaby and Mr. Jingeling. He watched TV for 45 minutes.
2. On Sunday he watched the Walt Disney show. This program lasts 60 minutes.
3. Write the names of three programs that last for 30 minutes. Barnaby, Funday Funnies, Lassie, Yogi Bear, and Bugs Bunny—any three of these answers are accepted.
4. The Mr. Jingeling program lasts for 15 minutes. The Barnaby program lasts for 30 minutes. The Barnaby show lasts for 15 minutes longer than the Mr. Jingeling show.
5. The program on Peter's list that runs for the longest time is Captain Penny.
6. The Bugs Bunny show lasts for 30 minutes. The Captain Penny show lasts for 75 minutes. The Bugs Bunny show runs 45 minutes less than the Captain Penny show.

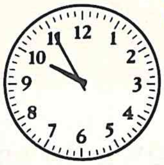
how the correct time for each on a copy of a clockface.

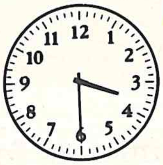
1  25 minutes later

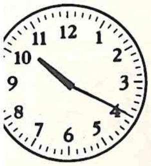
2  1 hour and 35 minutes later

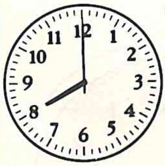
3  60 minutes later

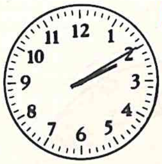
4  10 minutes later

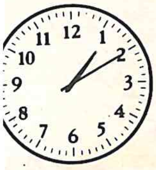
5  2 hours and 5 minutes later

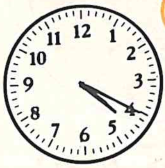
6  20 minutes later

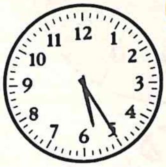
7  45 minutes later

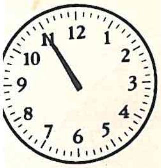
8  1 hour and 50 minutes later

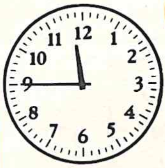
9  55 minutes later

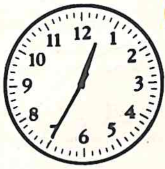
10  60 minutes earlier

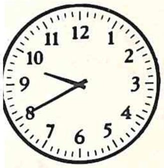
11  40 minutes earlier

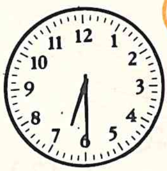
12  2 hours and 5 minutes earlier

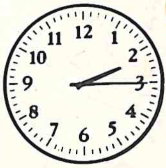
13  50 minutes earlier

14  1 hour and 10 minutes earlier

15  25 minutes earlier

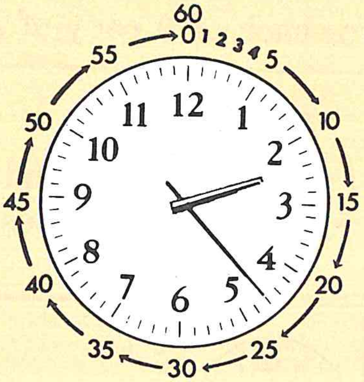
16  1 hour and 5 minutes earlier

17  35 minutes earlier

18  55 minutes earlier

ote: All answers will be found on the last page of this book.)

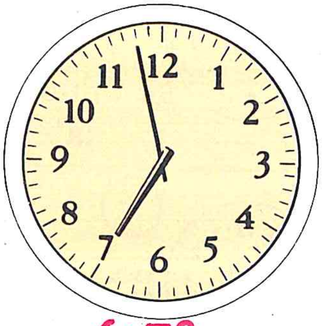
Example:



2:23

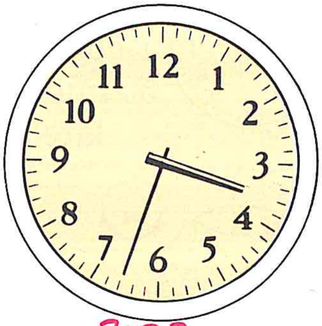
Write the numerals for the time shown on each clockface.

①



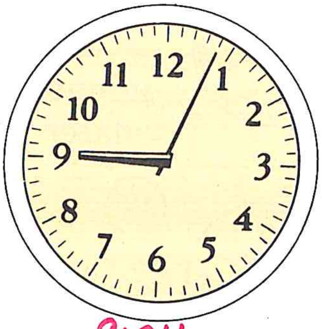
6:58
(2 minutes to 7)

②



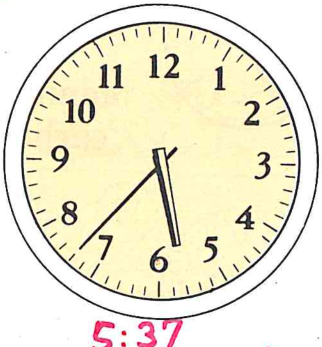
3:33
(27 minutes to 4)

③



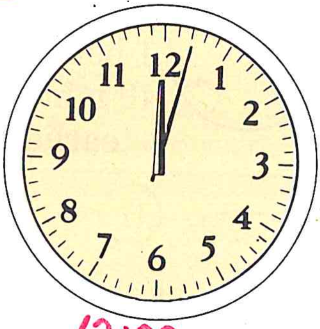
9:04
(4 minutes past 9)

④



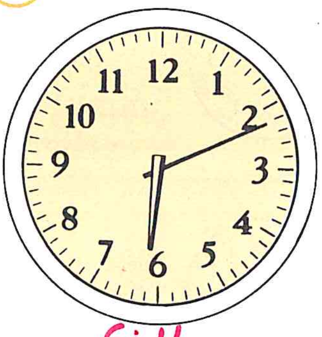
5:37
(23 minutes to 6)

⑤



12:02
(2 minutes past 12)

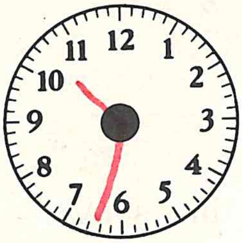
⑥



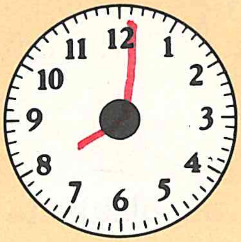
6:11
(11 minutes past 6)

how the given time on a copy of a clockface.

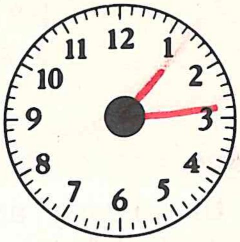
① 10:32



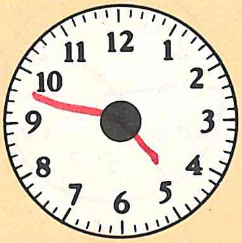
② 8:01



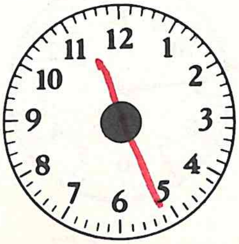
③ 1:14



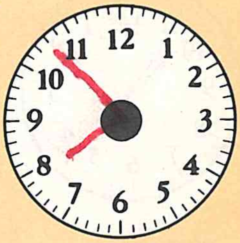
④ 4:48



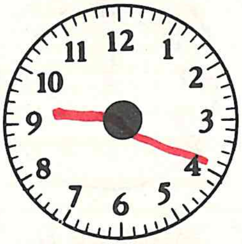
⑤ 11:26



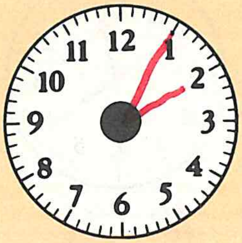
⑥ 7:53



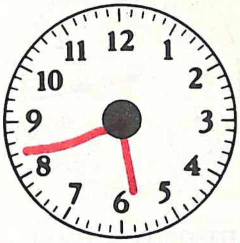
⑦ 9:19



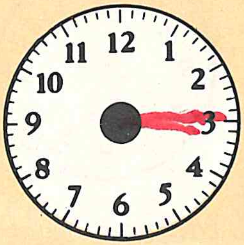
⑧ 2:05



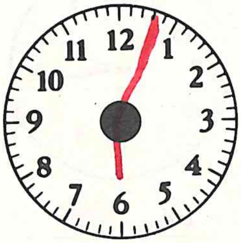
⑨ 5:42



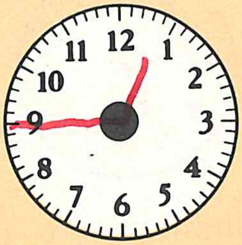
⑩ 3:15

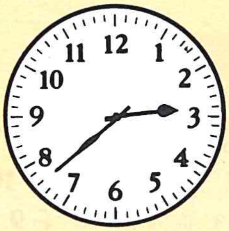


⑪ 6:03



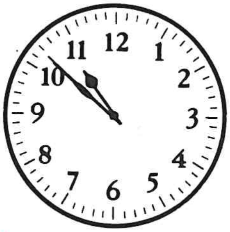
⑫ 12:45



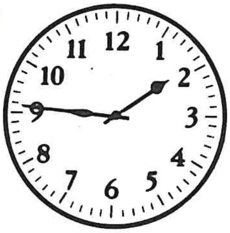


2:38
38 minutes past 2
22 minutes to 3

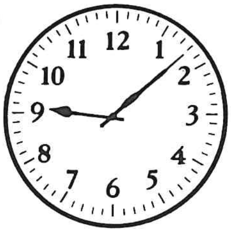
Copy the phrases and fill in the blanks to tell the time shown on each clockface.

①


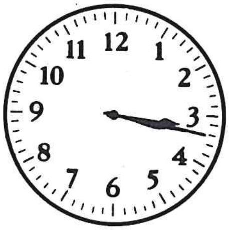
8 minutes to 11

②


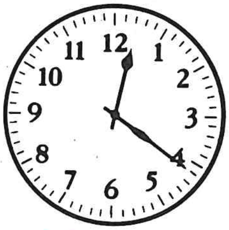
1 : 46

③


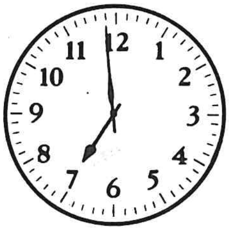
8 minutes past 9

④


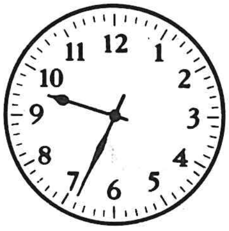
17 minutes past 3

⑤


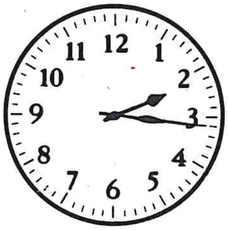
12 : 21

⑥


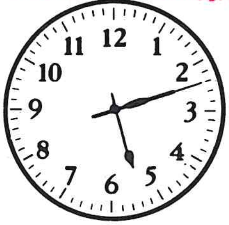
1 minutes to 7
(Note: In this answer the "s" in minutes is not needed.)

⑦


~~3~~26 minutes to 10

⑧


2 : 16

⑨


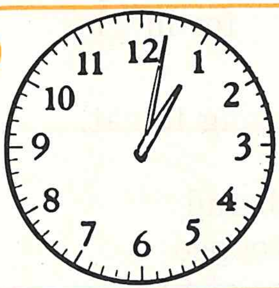
12 minutes past 5

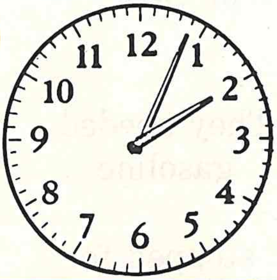
Show the correct time on a copy of a clockface.

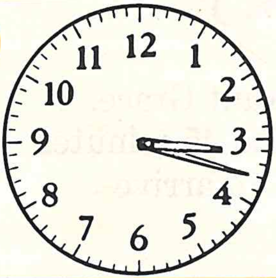
51 minutes past 3
24 minutes to 7
12 minutes past 10
6 minutes to 1

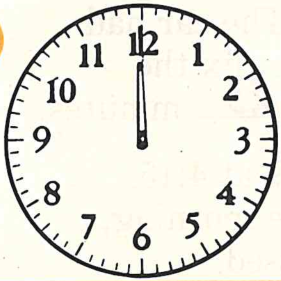
5 4:36
6 11:07
7 8:41
8 12:39

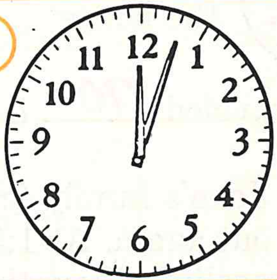
9 9 minutes to 5
10 57 minutes past 9
11 16 minutes to 2
12 23 minutes past 6

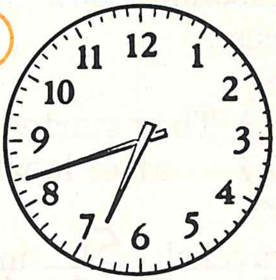
13

30 minutes later

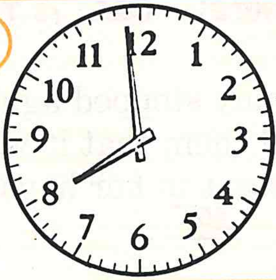
14

45 minutes later

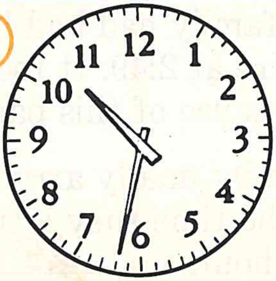
15

25 minutes later

16

35 minutes later

17

10 minutes earlier

18

40 minutes earlier

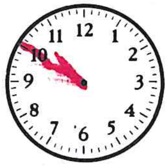
19

15 minutes earlier

20

20 minutes earlier

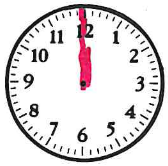
te: All answers will be found on the last page of this book.)

Work the story problems.

1. Jean and her family went to visit an aunt. They left home at 10:50. They stopped for lunch at 12:00. Show these times on copies of two clockfaces.



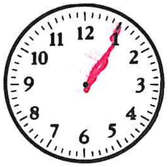
They left the house



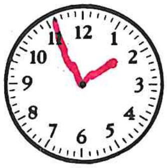
They stopped for lunch

They traveled 70 minutes before stopping to eat.

2. At 1:05 Jean's family finished eating lunch and started out again. At 1:56 Jean's father stopped to get gasoline. Show these times on copies of two clockfaces.



They started out after lunch



They needed gasoline

They traveled 51 minutes before they stopped for gas. (Note: "Gas" is the same as gasoline.)

3. The family stopped again at 2:00 to call Aunt Grace. She told them that it would take 1 hour and 45 minutes more to get to her house. They could plan to arrive at 3 : 45 .

4. Jean's family had bad luck on their trip. The car had a flat tire at 2:49. It took Dad until 3:15 to fix the tire. Because of this bad luck, they lost 26 minutes.

5. The family finally arrived at Aunt Grace's at 4:15. From the time they left their house in the morning, 5 hours and 25 minutes had passed.

Work the story problems.

BUS SCHEDULE

Bus	Leaves the Bus Terminal	Arrives at Main Street	Arrives at Public Square
A	8:32	8:45	9:05
B	8:45	8:58	9:18
C	8:58	9:11	9:31
D	9:11	9:24	9:44

1. It takes Bus A 13 minutes to get from the bus terminal to Main Street.
2. It takes Bus B 20 minutes to get from Main Street to the Public Square.
3. It takes Bus C 33 minutes to get from the bus terminal to the Public Square.
4. Bus D leaves the bus terminal 13 minutes after Bus B.
5. Bus C arrives at Main Street 26 minutes after Bus A.
6. Bus D arrives at the Public Square 39 minutes after Bus A.
7. If you miss Bus B at Main Street, you must wait 13 minutes for the next bus.

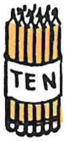
MULTIPLICATION

Copy and complete each equation.

ⓐ

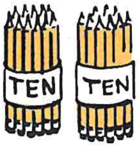
$0 \times 10 = \boxed{0}$

ⓑ



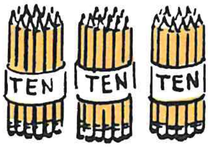
$1 \times 10 = \boxed{10}$

ⓒ



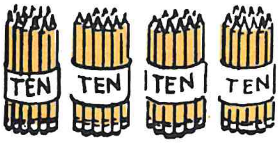
$2 \times 10 = \boxed{20}$

ⓓ



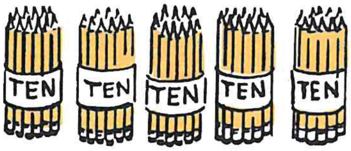
$3 \times 10 = \boxed{30}$

ⓔ



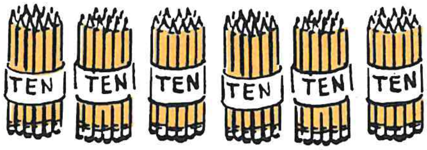
$4 \times 10 = \boxed{40}$

ⓕ



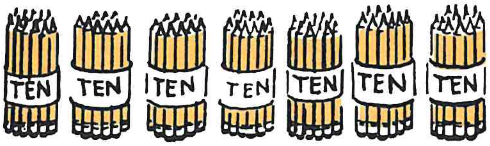
$5 \times 10 = \boxed{50}$

ⓖ



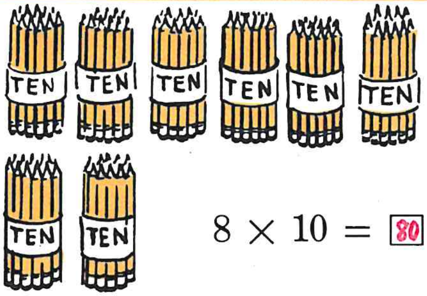
$6 \times 10 = \boxed{60}$

ⓗ



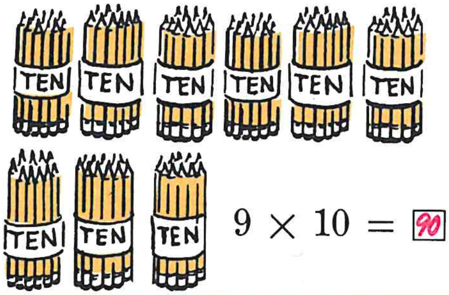
$7 \times 10 = \boxed{70}$

ⓘ



$8 \times 10 = \boxed{80}$

ⓙ



$9 \times 10 = \boxed{90}$

Copy and complete each equation.

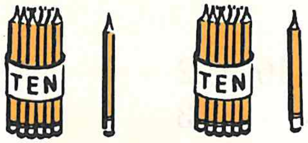
a

$0 \times 11 = \boxed{0}$

b

$1 \times 11 = \boxed{11}$

c



$$\begin{aligned} 2 \times 11 &= 2 \times (10 + 1) \\ &= (2 \times 10) + (2 \times 1) \\ &= \underline{20} + \underline{2} \\ &= \underline{22} \end{aligned}$$

d

$$\begin{aligned} 3 \times 11 &= 3 \times (10 + 1) \\ &= (3 \times 10) + (3 \times 1) \\ &= \underline{30} + \underline{3} \\ &= \underline{33} \end{aligned}$$

e

$$\begin{aligned} 4 \times 11 &= 4 \times (10 + 1) \\ &= (4 \times 10) + (4 \times 1) \\ &= \underline{40} + \underline{4} \\ &= \underline{44} \end{aligned}$$

f

$$\begin{aligned} 5 \times 11 &= 5 \times (10 + 1) \\ &= (5 \times 10) + (5 \times 1) \\ &= \underline{50} + \underline{5} \\ &= \underline{55} \end{aligned}$$

g

$$\begin{aligned} 6 \times 11 &= 6 \times (10 + 1) \\ &= (6 \times 10) + (6 \times 1) \\ &= \underline{60} + \underline{6} \\ &= \underline{66} \end{aligned}$$

h

$$\begin{aligned} 7 \times 11 &= 7 \times (10 + 1) \\ &= (7 \times 10) + (7 \times 1) \\ &= \underline{70} + \underline{7} \\ &= \underline{77} \end{aligned}$$

i

$$\begin{aligned} 8 \times 11 &= 8 \times (10 + 1) \\ &= (8 \times 10) + (8 \times 1) \\ &= \underline{80} + \underline{8} \\ &= \underline{88} \end{aligned}$$

j

$$\begin{aligned} 9 \times 11 &= 9 \times (10 + 1) \\ &= (9 \times 10) + (9 \times 1) \\ &= \underline{90} + \underline{9} \\ &= \underline{99} \end{aligned}$$

$$\begin{aligned} 2 \times 12 &= 2 \times (10 + 2) \\ &= (2 \times 10) + (2 \times 2) \\ &= 20 + 4 \\ &= \underline{24} \end{aligned}$$

$$\begin{array}{r} 10 + 2 \\ \times \qquad 2 \\ \hline 20 + 4 = \underline{24} \end{array}$$

Copy and complete each equation.

1a

$$\begin{aligned} 3 \times 12 &= 3 \times (10 + 2) \\ &= (3 \times 10) + (3 \times 2) \\ &= \underline{30} + \underline{6} \\ &= \underline{36} \end{aligned}$$

1b

$$\begin{array}{r} 10 + 2 \\ \times \qquad 3 \\ \hline 30 + 6 = \underline{36} \end{array}$$

2a

$$\begin{aligned} 4 \times 12 &= 4 \times (10 + 2) \\ &= (4 \times 10) + (4 \times 2) \\ &= \underline{40} + \underline{8} \\ &= \underline{48} \end{aligned}$$

2b

$$\begin{array}{r} 10 + 2 \\ \times \qquad 4 \\ \hline 40 + 8 = \underline{48} \end{array}$$

3a

$$\begin{aligned} 2 \times 14 &= 2 \times (10 + 4) \\ &= (2 \times 10) + (2 \times 4) \\ &= \underline{20} + \underline{8} \\ &= \underline{28} \end{aligned}$$

3b

$$\begin{array}{r} 10 + 4 \\ \times \qquad 2 \\ \hline 20 + 8 = \underline{28} \end{array}$$

4a

$$\begin{aligned} 3 \times 13 &= 3 \times (10 + 3) \\ &= (3 \times 10) + (3 \times 3) \\ &= \underline{30} + \underline{9} \\ &= \underline{39} \end{aligned}$$

4b

$$\begin{array}{r} 10 + 3 \\ \times \qquad 3 \\ \hline 30 + 9 = \underline{39} \end{array}$$

We use the distributive property in problems which have factors of 2 digits or more.

$$\begin{aligned} 2 \times 13 &= 2 \times (10 + 3) \\ &= (2 \times 10) + (2 \times 3) \\ &= \underline{\ 20\ } + \underline{\ 6\ } \\ &= \underline{\ 26\ } \end{aligned}$$

$$\begin{array}{r} 10 + 3 \\ \times \qquad 2 \\ \hline 20 + 6 = \underline{\ 26\ } \end{array} \qquad \begin{array}{r} 1\ 3 \\ \times \ \ 2 \\ \hline 2\ 6 \end{array}$$

ind the products.

1a
$$\begin{array}{r} 10 + 1 \\ \times \qquad 4 \\ \hline 40 + 4 = \underline{\ 44\ } \end{array}$$

1b
$$\begin{array}{r} 11 \\ \times\ 4 \\ \hline 44 \end{array}$$

2a
$$\begin{array}{r} 10 + 2 \\ \times \qquad 3 \\ \hline 30 + 6 = \underline{\ 36\ } \end{array}$$

2b
$$\begin{array}{r} 12 \\ \times\ 3 \\ \hline 36 \end{array}$$

3a
$$\begin{array}{r} 10 + 2 \\ \times \qquad 4 \\ \hline 40 + 8 = \underline{\ 48\ } \end{array}$$

3b
$$\begin{array}{r} 12 \\ \times\ 4 \\ \hline 48 \end{array}$$

4a
$$\begin{array}{r} 10 + 1 \\ \times \qquad 6 \\ \hline 60 + 6 = \underline{\ 66\ } \end{array}$$

4b
$$\begin{array}{r} 11 \\ \times\ 6 \\ \hline 66 \end{array}$$

5a
$$\begin{array}{r} 10 + 2 \\ \times \qquad 2 \\ \hline 20 + 4 = \underline{\ 24\ } \end{array}$$

5b
$$\begin{array}{r} 12 \\ \times\ 2 \\ \hline 24 \end{array}$$

6a
$$\begin{array}{r} 10 + 1 \\ \times \qquad 2 \\ \hline 20 + 2 = \underline{\ 22\ } \end{array}$$

6b
$$\begin{array}{r} 11 \\ \times\ 2 \\ \hline 22 \end{array}$$

7a
$$\begin{array}{r} 10 + 1 \\ \times \qquad 5 \\ \hline 50 + 5 = \underline{\ 55\ } \end{array}$$

7b
$$\begin{array}{r} 11 \\ \times\ 5 \\ \hline 55 \end{array}$$

8a
$$\begin{array}{r} 10 + 3 \\ \times \qquad 3 \\ \hline 30 + 9 = \underline{\ 39\ } \end{array}$$

8b
$$\begin{array}{r} 13 \\ \times\ 3 \\ \hline 39 \end{array}$$

Find the products.

$$\begin{aligned} 4 \times 16 &= 4 \times (10 + 6) \\ &= (4 \times 10) + (4 \times 6) \\ &= 40 + 24 \\ &= 64 \end{aligned}$$

$$\begin{array}{rr} 10 + & 6 \\ \times & 4 \\ \hline 40 + & 24 \end{array} = 64 \qquad \begin{array}{r} \overset{2}{1}\,6 \\ \times \;\; 4 \\ \hline 6\,4 \end{array}$$

1a

$$\begin{array}{rr} 10 + & 3 \\ \times & 4 \\ \hline 40 + & 12 \end{array} = 52$$

1b

$$\begin{array}{r} 13 \\ \times \; 4 \\ \hline 52 \end{array}$$

2a

$$\begin{array}{rr} 10 + & 2 \\ \times & 5 \\ \hline 50 + & 10 \end{array} = 60$$

2b

$$\begin{array}{r} 12 \\ \times \; 5 \\ \hline 60 \end{array}$$

3a

$$\begin{array}{rr} 10 + & 8 \\ \times & 3 \\ \hline 30 + & 24 \end{array} = 54$$

3b

$$\begin{array}{r} 18 \\ \times \; 3 \\ \hline 54 \end{array}$$

4a

$$\begin{array}{rr} 10 + & 9 \\ \times & 2 \\ \hline 20 + & 18 \end{array} = 38$$

4b

$$\begin{array}{r} 19 \\ \times \; 2 \\ \hline 38 \end{array}$$

5a

$$\begin{array}{rr} 10 + & 5 \\ \times & 3 \\ \hline 30 + & 15 \end{array} = 45$$

5b

$$\begin{array}{r} 15 \\ \times \; 3 \\ \hline 45 \end{array}$$

6a

$$\begin{array}{rr} 10 + & 8 \\ \times & 2 \\ \hline 20 + & 16 \end{array} = 36$$

6b

$$\begin{array}{r} 18 \\ \times \; 2 \\ \hline 36 \end{array}$$

7a

$$\begin{array}{rr} 10 + & 4 \\ \times & 6 \\ \hline 60 + & 24 \end{array} = 84$$

7b

$$\begin{array}{r} 14 \\ \times \; 6 \\ \hline 84 \end{array}$$

8a

$$\begin{array}{rr} 10 + & 7 \\ \times & 4 \\ \hline 40 + & 28 \end{array} = 68$$

8b

$$\begin{array}{r} 17 \\ \times \; 4 \\ \hline 68 \end{array}$$

Find the products.

	A	B	C	D	E	F
①	16 × 5 80	12 × 7 84	14 × 4 56	18 × 5 90	13 × 7 91	14 × 3 42
②	17 × 5 85	19 × 4 76	16 × 6 96	14 × 6 84	16 × 3 48	15 × 6 90
③	19 × 3 57	14 × 7 98	12 × 8 96	16 × 4 64	14 × 5 70	13 × 5 45
④	19 × 5 95	12 × 6 72	18 × 2 36	17 × 4 68	15 × 5 75	13 × 6 78
⑤	15 × 4 60	18 × 3 54	17 × 3 51	18 × 4 72	12 × 5 60	17 × 2 34
⑥	15 × 2 30	19 × 2 38	13 × 6 78	19 × 3 57	17 × 4 68	19 × 4 56
⑦	16 × 2 32	15 × 5 75	17 × 4 68	16 × 6 96	13 × 5 65	14 × 6 84

Find the products.

	A	B	C	D	E	F
①	15 × 6 90	12 × 6 72	15 × 4 60	12 × 8 96	13 × 7 91	16 × 5 80
②	18 × 4 72	17 × 5 85	16 × 4 64	14 × 5 70	13 × 4 52	17 × 3 51
③	14 × 7 68	17 × 2 34	18 × 3 54	15 × 3 45	18 × 5 90	16 × 2 32
④	14 × 4 64	12 × 5 60	18 × 2 36	12 × 7 84	15 × 6 90	14 × 6 84
⑤	16 × 4 64	17 × 5 85	19 × 5 95	17 × 3 51	16 × 5 80	13 × 5 65
⑥	12 × 6 72	13 × 7 91	15 × 5 75	16 × 6 96	17 × 4 68	19 × 2 38
⑦	16 × 3 48	15 × 4 60	13 × 4 52	12 × 8 96	18 × 4 72	14 × 3 42

Copy and complete equations 1a and 1b; then write the rest of the equations the same way.

1a $(1 \times 2) \times 3 =$ 6.
2 $\times 3 =$ 6.

1b $1 \times (2 \times 3) =$ 6.
$1 \times$ 6 $=$ 6.

2a $(2 \times 2) \times 4 =$ 16.
4×4=16

2b $2 \times (2 \times 4) =$ 16.
2×8=16

3a $(3 \times 2) \times 2 =$ 12.
6×2=12

3b $3 \times (2 \times 2) =$ 12.
3×4=12

4a $(2 \times 3) \times 3 =$ 18.
6×3=18

4b $2 \times (3 \times 3) =$ 18.
2×9=18

5a $(4 \times 2) \times 1 =$ 8.
8×1=8

5b $4 \times (2 \times 1) =$ 8.
4×2=8

6a $(2 \times 4) \times 2 =$ 16.
8×2=16

6b $2 \times (4 \times 2) =$ 16.
2×8=16

7a $(3 \times 2) \times 1 =$ 6.
6×1=6

7b $3 \times (2 \times 1) =$ 6.
3×2=6

8a $(2 \times 2) \times 3 =$ 12.
4×3=12

8b $2 \times (2 \times 3) =$ 12.
2×6=12

9a $(4 \times 2) \times 2 =$ 16.
8×2=16

9b $4 \times (2 \times 2) =$ 16.
4×4=16

10a $(3 \times 3) \times 2 =$ 18.
9×2=18

10b $3 \times (3 \times 2) =$ 18.
3×6=18

11a $(3 \times 2) \times 3 =$ 18.
6×3=18

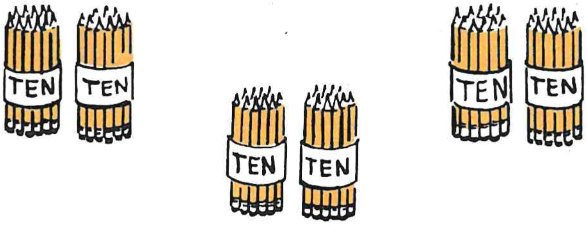
11b $3 \times (2 \times 3) =$ 18.
3×6=18

12a $(1 \times 9) \times 1 =$ 9.
9×1=9

12b $1 \times (9 \times 1) =$ 9.
1×9=9

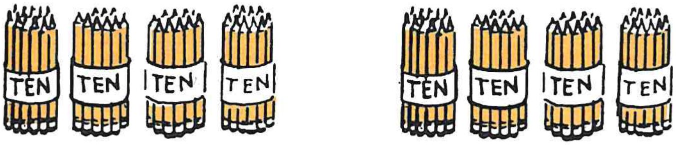
Multiplication is associative.

Copy and complete each equation.



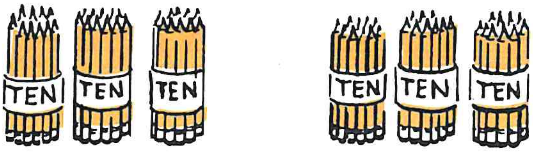
①

$$\begin{aligned} 3 \times 20 &= 3 \times (2 \times 10) \\ &= (3 \times 2) \times 10 \\ &= \underline{6} \times 10 \\ &= \underline{60} \end{aligned}$$



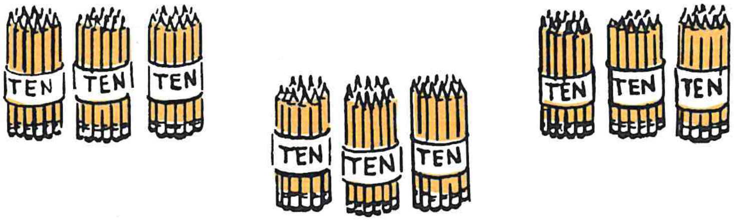
②

$$\begin{aligned} 2 \times 40 &= 2 \times (4 \times 10) \\ &= (2 \times 4) \times 10 \\ &= \underline{8} \times 10 \\ &= \underline{80} \end{aligned}$$



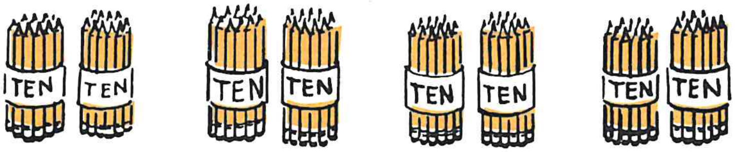
③

$$\begin{aligned} 2 \times 30 &= 2 \times (3 \times 10) \\ &= (2 \times 3) \times 10 \\ &= \underline{6} \times 10 \\ &= \underline{60} \end{aligned}$$



④

$$\begin{aligned} 3 \times 30 &= 3 \times (3 \times 10) \\ &= (3 \times 3) \times 10 \\ &= \underline{9} \times 10 \\ &= \underline{90} \end{aligned}$$



⑤

$$\begin{aligned} 4 \times 20 &= 4 \times (2 \times 10) \\ &= (4 \times 2) \times 10 \\ &= \underline{8} \times 10 \\ &= \underline{80} \end{aligned}$$

In multiplication we use the associative property when one of the factors is a multiple of 10.

Copy and complete each equation.

1a $4 \times 60 = \underline{24} \times 10 = \underline{240}$

1b $60 \times 4 = 10 \times \underline{24} = \underline{240}$

2a $7 \times 30 = \underline{21} \times 10 = \underline{210}$

2b $30 \times 7 = 10 \times \underline{\cancel{37}\ 21} = \underline{210}$

3a $3 \times 50 = \underline{15} \times 10 = \underline{150}$

3b $50 \times 3 = 10 \times \underline{15} = \underline{150}$

4a $8 \times 90 = \underline{72} \times 10 = \underline{720}$

4b $90 \times 8 = 10 \times \underline{72} = \underline{720}$

5a $6 \times 70 = \underline{42} \times 10 = \underline{420}$

5b $70 \times 6 = 10 \times \underline{42} = \underline{420}$

Find the products.

	A	B	C	D	E
6	80 × 2 160	60 × 5 300	20 × 7 140	50 × 8 400	70 × 4 280
7	30 × 9 270	90 × 3 270	40 × 6 240	70 × 5 350	80 × 7 560
8	50 × 6 300	30 × 8 240	60 × 3 180	90 × 6 540	40 × 8 320

$$\begin{array}{r} 20 + 4 \\ \times 3 \\ \hline 60 + 12 \end{array} = 72 \qquad \begin{array}{r} {}^{1} \\ 24 \\ \times\ 3 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 20 + 4 \\ \times 6 \\ \hline 120 + 24 \end{array} = 144 \qquad \begin{array}{r} {}^{2} \\ 24 \\ \times\ 6 \\ \hline 144 \end{array}$$

Find the products.

1a $\begin{array}{r} 20 + 6 \\ \times 3 \\ \hline 60 + 18 \end{array} = 78$ 1b $\begin{array}{r} 26 \\ \times\ 3 \\ \hline 78 \end{array}$

2a $\begin{array}{r} 30 + 5 \\ \times 3 \\ \hline 90 + 15 \end{array} = 105$ 2b $\begin{array}{r} 35 \\ \times\ 3 \\ \hline 105 \end{array}$

3a $\begin{array}{r} 40 + 8 \\ \times 4 \\ \hline 160 + 32 \end{array} = 192$ 3b $\begin{array}{r} 48 \\ \times\ 4 \\ \hline 192 \end{array}$

4a $\begin{array}{r} 80 + 8 \\ \times 2 \\ \hline 160 + 16 \end{array} = 176$ 4b $\begin{array}{r} 88 \\ \times\ 2 \\ \hline 176 \end{array}$

5a $\begin{array}{r} 90 + 3 \\ \times 8 \\ \hline 720 + 24 \end{array} = 744$ 5b $\begin{array}{r} 93 \\ \times\ 8 \\ \hline 744 \end{array}$

6a $\begin{array}{r} 20 + 3 \\ \times 4 \\ \hline 80 + 12 \end{array} = 92$ 6b $\begin{array}{r} 23 \\ \times\ 4 \\ \hline 92 \end{array}$

7a $\begin{array}{r} 30 + 7 \\ \times 4 \\ \hline 120 + 28 \end{array} = 148$ 7b $\begin{array}{r} 37 \\ \times\ 4 \\ \hline 148 \end{array}$

8a $\begin{array}{r} 50 + 3 \\ \times 6 \\ \hline 300 + 18 \end{array} = 318$ 8b $\begin{array}{r} 53 \\ \times\ 6 \\ \hline 318 \end{array}$

9a $\begin{array}{r} 60 + 4 \\ \times 9 \\ \hline 540 + 36 \end{array} = 576$ 9b $\begin{array}{r} 64 \\ \times\ 9 \\ \hline 576 \end{array}$

10a $\begin{array}{r} 70 + 6 \\ \times 6 \\ \hline 420 + 36 \end{array} = 456$ 10b $\begin{array}{r} 76 \\ \times\ 6 \\ \hline 456 \end{array}$

Find the products.

	A	B	C	D	E	F
①	46 × 4 184	23 × 5 115	25 × 7 175	26 × 6 156	34 × 3 102	29 × 2 58
②	35 × 4 140	47 × 6 282	76 × 5 380	27 × 4 108	87 × 3 261	59 × 5 295
③	69 × 3 207	48 × 5 240	38 × 6 222	47 × 7 289	25 × 3 75	87 × 2 174
④	95 × 6 570	36 × 7 252	27 × 8 216	89 × 4 356	36 × 9 324	65 × 2 130
⑤	98 × 7 686	38 × 8 304	45 × 9 405	46 × 8 368	29 × 9 261	59 × 8 472
⑥	36 × 3 108	59 × 4 236	79 × 2 158	28 × 4 112	97 × 3 291	26 × 5 130
⑦	48 × 5 240	73 × 4 292	85 × 3 255	64 × 4 256	57 × 6 342	62 × 7 432
⑧	73 × 8 584	93 × 5 465	84 × 9 756	46 × 8 368	75 × 5 375	24 × 3 72

Find the products.

	A	B	C	D	E	F
①	93 × 6 558	38 × 7 266	58 × 8 464	57 × 9 513	49 × 7 343	84 × 6 504
②	68 × 2 136	45 × 2 90	96 × 3 288	64 × 4 256	26 × 6 156	38 × 5 190
③	93 × 4 372	69 × 5 345	58 × 3 174	87 × 4 348	75 × 5 375	94 × 6 564
④	24 × 5 120	57 × 7 399	29 × 8 232	23 × 9 207	45 × 9 405	39 × 7 273
⑤	85 × 6 510	25 × 4 100	84 × 7 588	36 × 8 288	62 × 7 434	54 × 8 432
⑥	69 × 9 621	73 × 6 438	34 × 3 102	87 × 9 783	98 × 2 196	87 × 8 696
⑦	67 × 2 134	39 × 2 78	28 × 3 84	56 × 4 224	69 × 3 201	38 × 4 152
⑧	28 × 5 140	43 × 6 258	26 × 7 182	47 × 3 141	74 × 4 296	69 × 5 345

Find the products.

	A	B	C	D	E
①	59 × 6 354	43 × 7 301	27 × 6 162	59 × 7 413	57 × 5 295
②	62 × 8 496	34 × 5 170	94 × 8 752	38 × 9 342	72 × 9 648
③	78 × 7 546	54 × 9 486	86 × 6 516	69 × 9 621	87 × 2 174
④	45 × 3 135	39 × 4 156	69 × 3 207	85 × 4 340	85 × 3 255
⑤	69 × 5 345	26 × 6 156	85 × 5 425	76 × 4 304	47 × 6 288
⑥	37 × 7 259	83 × 6 498	46 × 7 322	47 × 5 235	28 × 8 208
⑦	56 × 8 448	37 × 9 333	47 × 8 376	59 × 9 531	95 × 7 665
⑧	95 × 6 570	92 × 8 736	37 × 3 111	46 × 9 414	26 × 9 234
⑨	82 × 7 574	23 × 5 115	24 × 4 96	89 × 9 801	37 × 4 148

DIVISION

①

$$\underbrace{\begin{array}{r}24\\-\ 4\\\hline 20\end{array}\quad\begin{array}{r}20\\-\ 4\\\hline 16\end{array}}\quad\underbrace{\begin{array}{r}16\\-\ 4\\\hline 12\end{array}\quad\begin{array}{r}12\\-\ 4\\\hline 8\end{array}}\quad\underbrace{\begin{array}{r}8\\-\ 4\\\hline 4\end{array}\quad\begin{array}{r}4\\-\ 4\\\hline 0\end{array}}$$

$$24 - (2 \times 4) = 16$$

$$16 - (2 \times 4) = 8$$

$$8 - (2 \times 4) = 0$$

$$\begin{array}{r|r|l} 4 & 2\ 4 & \\ & -\ \ 8 & 2 \\ \hline & 1\ 6 & \\ & -\ \ 8 & 2 \\ \hline & 8 & \\ & -\ \ 8 & 2 \\ \hline & 0 & 6 \end{array}$$

②

$$\underbrace{\begin{array}{r}24\\-\ 4\\\hline 20\end{array}\quad\begin{array}{r}20\\-\ 4\\\hline 16\end{array}\quad\begin{array}{r}16\\-\ 4\\\hline 12\end{array}}\quad\underbrace{\begin{array}{r}12\\-\ 4\\\hline 8\end{array}\quad\begin{array}{r}8\\-\ 4\\\hline 4\end{array}\quad\begin{array}{r}4\\-\ 4\\\hline 0\end{array}}$$

$$24 - (3 \times 4) = 12$$

$$12 - (3 \times 4) = 0$$

$$\begin{array}{r|r|l} 4 & 2\ 4 & \\ & -1\ 2 & 3 \\ \hline & 1\ 2 & \\ & -1\ 2 & 3 \\ \hline & 0 & 6 \end{array}$$

③

$$\underbrace{\begin{array}{r}24\\-\ 4\\\hline 20\end{array}\quad\begin{array}{r}20\\-\ 4\\\hline 16\end{array}\quad\begin{array}{r}16\\-\ 4\\\hline 12\end{array}\quad\begin{array}{r}12\\-\ 4\\\hline 8\end{array}}\quad\underbrace{\begin{array}{r}8\\-\ 4\\\hline 4\end{array}\quad\begin{array}{r}4\\-\ 4\\\hline 0\end{array}}$$

$$24 - (4 \times 4) = 8$$

$$8 - (2 \times 4) = 0$$

$$\begin{array}{r|r|l} 4 & 2\ 4 & \\ & -1\ 6 & 4 \\ \hline & 8 & \\ & -\ \ 8 & 2 \\ \hline & 0 & 6 \end{array}$$

$$\begin{array}{r|r|r}
4 & 5\ 6 & \\
 & -1\ 2 & 3 \\ \cline{2-3}
 & 4\ 4 & \\
 & -1\ 2 & 3 \\ \cline{2-3}
 & 3\ 2 & \\
 & -3\ 2 & 8 \\ \cline{2-3}
 & 0 & 1\ 4
\end{array}
\qquad
\begin{array}{r|r|r}
4 & 5\ 6 & \\
 & -2\ 0 & 5 \\ \cline{2-3}
 & 3\ 6 & \\
 & -3\ 6 & 9 \\ \cline{2-3}
 & 0 & 1\ 4
\end{array}
\qquad
\begin{array}{r|r|r}
4 & 5\ 6 & \\
 & -4\ 0 & 1\ 0 \\ \cline{2-3}
 & 1\ 6 & \\
 & -1\ 6 & 4 \\ \cline{2-3}
 & 0 & 1\ 4
\end{array}$$

Find the quotients.

	A	B	C	D
①	$\begin{array}{r} 13 \\ 7\overline{)91} \end{array}$	$\begin{array}{r} 17 \\ 5\overline{)85} \end{array}$	$\begin{array}{r} 14 \\ 3\overline{)42} \end{array}$	$\begin{array}{r} 15 \\ 6\overline{)90} \end{array}$
②	$\begin{array}{r} 19 \\ 2\overline{)38} \end{array}$	$\begin{array}{r} 17 \\ 3\overline{)51} \end{array}$	$\begin{array}{r} 12 \\ 6\overline{)72} \end{array}$	$\begin{array}{r} 15 \\ 5\overline{)75} \end{array}$
③	$\begin{array}{r} 12 \\ 7\overline{)84} \end{array}$	$\begin{array}{r} 16 \\ 3\overline{)48} \end{array}$	$\begin{array}{r} 13 \\ 4\overline{)52} \end{array}$	$\begin{array}{r} 12 \\ 5\overline{)60} \end{array}$
④	$\begin{array}{r} 16 \\ 6\overline{)96} \end{array}$	$\begin{array}{r} 14 \\ 7\overline{)98} \end{array}$	$\begin{array}{r} 17 \\ 4\overline{)68} \end{array}$	$\begin{array}{r} 12 \\ 8\overline{)96} \end{array}$
⑤	$\begin{array}{r} 18 \\ 5\overline{)90} \end{array}$	$\begin{array}{r} 18 \\ 4\overline{)72} \end{array}$	$\begin{array}{r} 14 \\ 6\overline{)84} \end{array}$	$\begin{array}{r} 19 \\ 4\overline{)76} \end{array}$
⑥	$\begin{array}{r} 18 \\ 3\overline{)54} \end{array}$	$\begin{array}{r} 18 \\ 2\overline{)36} \end{array}$	$\begin{array}{r} 13 \\ 6\overline{)78} \end{array}$	$\begin{array}{r} 16 \\ 4\overline{)64} \end{array}$

$$\begin{array}{r|r|r} 2 & 6\ 0 & \\ & -2\ 0 & 1\ 0 \\ \cline{2-3} & 4\ 0 & \\ & -2\ 0 & 1\ 0 \\ \cline{2-3} & 2\ 0 & \\ & -2\ 0 & 1\ 0 \\ \cline{2-3} & 0 & 3\ 0 \end{array}$$

$$\begin{array}{r|r|r} 2 & 6\ 0 & \\ & -6\ 0 & 3\ 0 \\ \cline{2-3} & 0 & 3\ 0 \end{array}$$

Find the quotients.

① $\begin{array}{r} 20 \\ 4\overline{)80} \end{array}$

② $\begin{array}{r} 30 \\ 3\overline{)90} \end{array}$

③ $\begin{array}{r} 20 \\ 2\overline{)40} \end{array}$

④ $\begin{array}{r} 20 \\ 3\overline{)60} \end{array}$

⑤ $\begin{array}{r} 40 \\ 2\overline{)80} \end{array}$

⑥ $\begin{array}{r} 10 \\ 5\overline{)50} \end{array}$

⑦ $\begin{array}{r} 10 \\ 3\overline{)30} \end{array}$

⑧ $\begin{array}{r} 30 \\ 2\overline{)60} \end{array}$

⑨ $\begin{array}{r} 10 \\ 8\overline{)80} \end{array}$

⑩ $\begin{array}{r} 10 \\ 4\overline{)40} \end{array}$

$$\begin{array}{r|r|r} 3 & 7\ 2 & \\ & -3\ 0 & 1\ 0 \\ \cline{2-3} & 4\ 2 & \\ & -3\ 0 & 1\ 0 \\ \cline{2-3} & 1\ 2 & \\ & -1\ 2 & 4 \\ \cline{2-3} & 0 & 2\ 4 \end{array}$$

$$\begin{array}{r|r|r} 3 & 7\ 2 & \\ & -6\ 0 & 2\ 0 \\ \cline{2-3} & 1\ 2 & \\ & -1\ 2 & 4 \\ \cline{2-3} & 0 & 2\ 4 \end{array}$$

Find the quotients.

⑪ $\begin{array}{r} 28 \\ 3\overline{)84} \end{array}$

⑫ $\begin{array}{r} 23 \\ 4\overline{)92} \end{array}$

⑬ $\begin{array}{r} 37 \\ 2\overline{)74} \end{array}$

⑭ $\begin{array}{r} 26 \\ 3\overline{)78} \end{array}$

⑮ $\begin{array}{r} 29 \\ 3\overline{)87} \end{array}$

⑯ $\begin{array}{r} 29 \\ 2\overline{)58} \end{array}$

⑰ $\begin{array}{r} 22 \\ 3\overline{)66} \end{array}$

⑱ $\begin{array}{r} 22 \\ 4\overline{)88} \end{array}$

⑲ $\begin{array}{r} 24 \\ 3\overline{)72} \end{array}$

⑳ $\begin{array}{r} 19 \\ 3\overline{)57} \end{array}$

Find the quotients.

① $\begin{array}{r}49\\2\overline{)98}\end{array}$

② $\begin{array}{r}33\\3\overline{)99}\end{array}$

③ $\begin{array}{r}24\\4\overline{)96}\end{array}$

④ $\begin{array}{r}44\\2\overline{)88}\end{array}$

⑤ $\begin{array}{r}47\\2\overline{)94}\end{array}$

⑥ $\begin{array}{r}24\\3\overline{)96}\end{array}$

⑦ $\begin{array}{r}25\\3\overline{)75}\end{array}$

⑧ $\begin{array}{r}39\\2\overline{)78}\end{array}$

⑨ $\begin{array}{r}27\\3\overline{)81}\end{array}$

⑩ $\begin{array}{r}28\\2\overline{)56}\end{array}$

⑪ $\begin{array}{r}48\\2\overline{)96}\end{array}$

⑫ $\begin{array}{r}42\\4\overline{)84}\end{array}$

⑬ $\begin{array}{r}31\\2\overline{)62}\end{array}$

⑭ $\begin{array}{r}23\\3\overline{)69}\end{array}$

⑮ $\begin{array}{r}41\\2\overline{)82}\end{array}$

$$\begin{array}{r|r} 4\overline{)68} & \\ -40 & 10 \\ \hline 28 & \\ -28 & 7 \\ \hline 0 & 7 \end{array} \qquad \begin{array}{r} 10 \\ 4\overline{)68} \\ -40 \\ \hline 28 \end{array} \qquad \begin{array}{r} 17 \\ 4\overline{)68} \\ -40 \\ \hline 28 \\ -28 \\ \hline 0 \end{array}$$

Find the quotients.

① $\begin{array}{r} 16 \\ 3\overline{)48} \end{array}$	② $\begin{array}{r} 13 \\ 7\overline{)91} \end{array}$	③ $\begin{array}{r} 16 \\ 6\overline{)96} \end{array}$
④ $\begin{array}{r} 19 \\ 2\overline{)38} \end{array}$	⑤ $\begin{array}{r} 14 \\ 4\overline{)56} \end{array}$	⑥ $\begin{array}{r} 19 \\ 5\overline{)95} \end{array}$
⑦ $\begin{array}{r} 17 \\ 5\overline{)85} \end{array}$	⑧ $\begin{array}{r} 17 \\ 2\overline{)34} \end{array}$	⑨ $\begin{array}{r} 15 \\ 3\overline{)45} \end{array}$
⑩ $\begin{array}{r} 13 \\ 4\overline{)52} \end{array}$	⑪ $\begin{array}{r} 17 \\ 3\overline{)51} \end{array}$	⑫ $\begin{array}{r} 15 \\ 5\overline{)75} \end{array}$
⑬ $\begin{array}{r} 18 \\ 4\overline{)72} \end{array}$	⑭ $\begin{array}{r} 13 \\ 6\overline{)78} \end{array}$	⑮ $\begin{array}{r} 16 \\ 5\overline{)80} \end{array}$

$$\begin{array}{r|l} 4\,\overline{)\,92} & \\ -80 & 20 \\ \hline 12 & \\ -12 & 3 \\ \hline 0 & 23 \end{array}$$

$$\begin{array}{r} 20 \\ 4\,\overline{)\,92} \\ -80 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 23 \\ 4\,\overline{)\,92} \\ -80 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

Find the quotients.

① $\begin{array}{r} 26 \\ 3\,\overline{)\,78} \end{array}$

② $\begin{array}{r} 38 \\ 2\,\overline{)\,76} \end{array}$

③ $\begin{array}{r} 18 \\ 5\,\overline{)\,90} \end{array}$

④ $\begin{array}{r} 25 \\ 2\,\overline{)\,50} \end{array}$

⑤ $\begin{array}{r} 45 \\ 2\,\overline{)\,90} \end{array}$

⑥ $\begin{array}{r} 29 \\ 3\,\overline{)\,87} \end{array}$

⑦ $\begin{array}{r} 28 \\ 3\,\overline{)\,84} \end{array}$

⑧ $\begin{array}{r} 24 \\ 4\,\overline{)\,96} \end{array}$

⑨ $\begin{array}{r} 46 \\ 2\,\overline{)\,92} \end{array}$

⑩ $\begin{array}{r} 27 \\ 2\,\overline{)\,54} \end{array}$

⑪ $\begin{array}{r} 14 \\ 6\,\overline{)\,84} \end{array}$

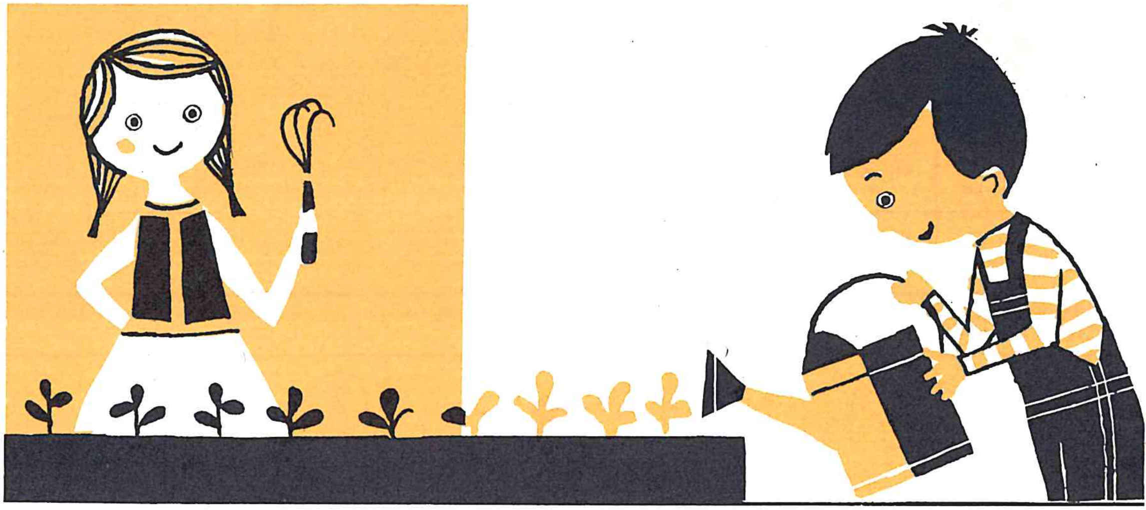
⑫ $\begin{array}{r} 27 \\ 3\,\overline{)\,81} \end{array}$

⑬ $\begin{array}{r} 35 \\ 2\,\overline{)\,70} \end{array}$

⑭ $\begin{array}{r} 26 \\ 2\,\overline{)\,52} \end{array}$

⑮ $\begin{array}{r} 16 \\ 5\,\overline{)\,80} \end{array}$

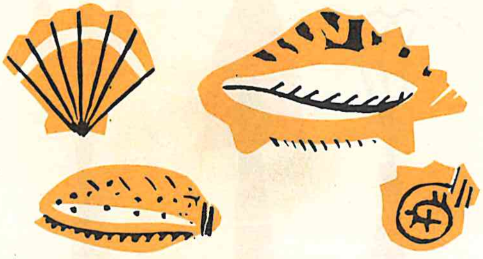
STORY PROBLEMS



THE GREEN THUMB CLUB

Work the story problems.

1. The third-grade Green Thumb Club planted 14 bean plants in 2 rows. They put the same number of plants in each row. Each row had 7 bean plants.
2. After eight weeks, each of 11 plants had 8 beans. There were 88 beans on the plants.
3. When the plants were full grown, the children picked 96 beans. They put the same number of beans into each of 4 bags. 24 beans were in each bag.
(Note: "Twenty-four" can also be accepted as a word.)
4. The children gave one bag of beans to each of the third-grade teachers. One teacher cooked her beans for dinner. She put the same number of beans in each of 3 dishes. Each dish held 8 beans.
5. Another teacher served 4 dishes of beans from her share. She put the same number of beans in each dish. Each dish held 6 beans.



THE SCIENCE TABLE

Work the story problems.

1. On their science table, the boys had 9 rock collections. In each collection there were 9 rocks. There were 81 rocks on the table.

2. John put 28 of the rocks into a box that had 7 rows in it. He put the same number of rocks in each row. There were 4 rocks in each row.

3. The girls brought in 8 collections of shells. In each collection there were 7 shells. They put 56 shells on the science table.

4. Nancy mounted 32 of the shells in 4 rows on a piece of cardboard. She put the same number of shells in each row. There were 8 shells in each row.

5. Betty mounted 24 of the shells in 3 rows on a piece of cardboard. She put the same number of shells in each row. Each row held 8 shells.

6. Three boys made labels for the 81 rocks. Each boy made 27 labels. Four girls made labels for the 56 shells. Each made 14 labels.

THE GREENHOUSE

Work the story problems.

1. Many plants were growing in the greenhouse. Jerry and Jill saw 12 rose plants. Each plant had 8 bright red flowers. They saw 96 red roses.

2. On each of 4 shelves, there were 24 violet plants. Jerry and Jill thought these 96 blossoms looked like velvet.

3. Jerry and Jill helped plant 78 tulip bulbs in 6 window boxes. They planted the same number of bulbs in each box. In one box Jerry and Jill planted 13 tulips.

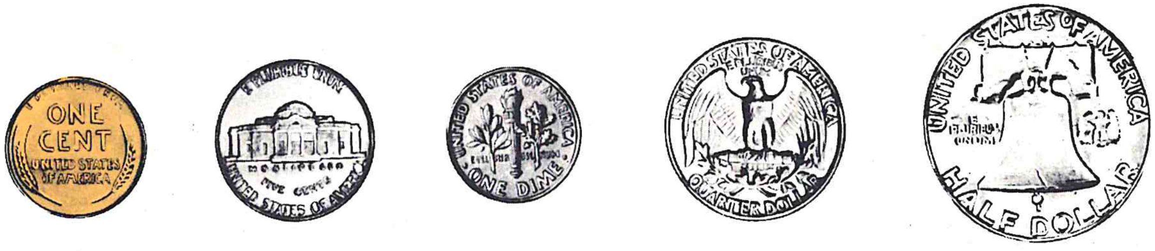
4. Jerry and Jill bought 6 packages of seeds. Each package held 16 seeds. Jerry and Jill would plant these 96 seeds in their garden.

CANDY LAND

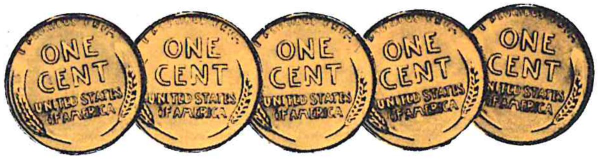
Work the story problems.

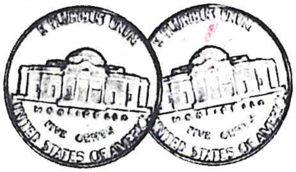
1. It was always a treat to go to the candy shop. Jerry and Jill liked to look at all the good things. to eat. On the counter there were 75 candy apples in 5 trays. Each tray held the same number of apples. In one tray there were 15 candy apples.
2. On the highest shelf stood 4 glass jars. In each jar there were 19 chocolate drops. Jerry and Jill wished they could eat these 76 chocolate drops.
3. Jill discovered 6 boxes of marshmallows. She counted 16 marshmallows in each box. Jill saw 96 marshmallows.
4. Jerry bought 3 bags of lemon drops. In each bag he had 17 pieces of candy. Jerry bought 51 lemon drops.
5. Jill bought 2 bags of caramels. Each bag held 19 pieces of candy. Jill bought 38 caramels.

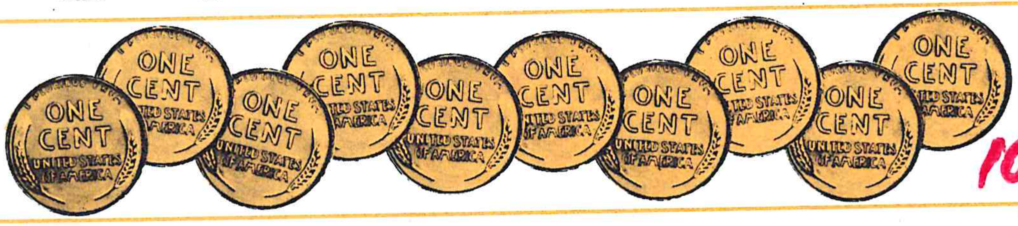
MONEY

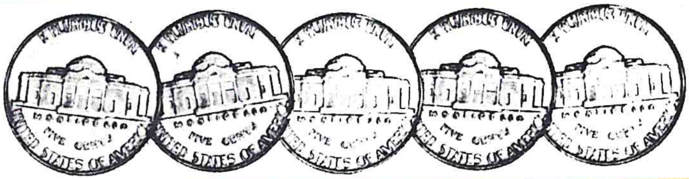


How many cents?

①  5¢ (This is how we make a cent sign.)

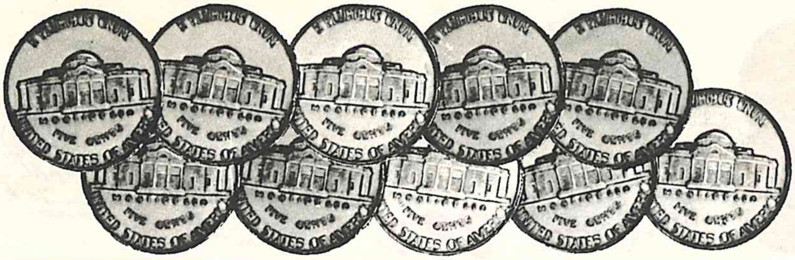
②  10¢

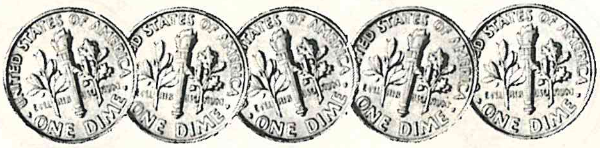
③  10¢

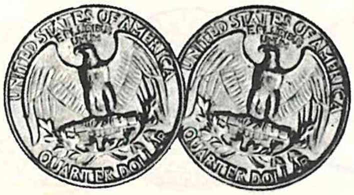
④  25¢

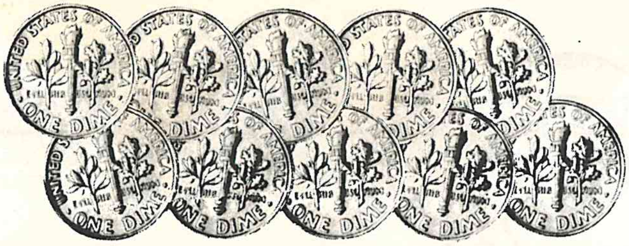
One penny has the value of one cent.
One nickel has the value of five cents.
One dime has the value of ten cents.
One quarter has the value of twenty-five cents.
One half-dollar has the value of fifty cents.

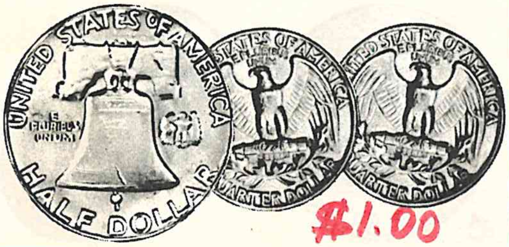
How many cents?

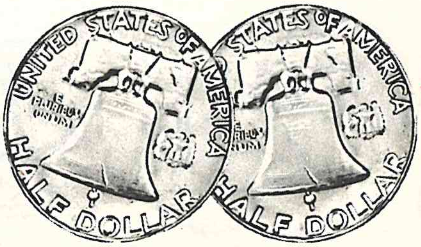
①

50¢

②

50¢

③

50¢

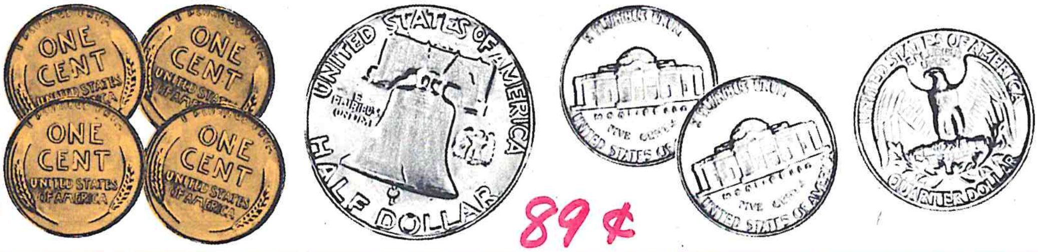
④

$1.00 (This is how we make a dollar sign.)

⑤

$1.00

⑥

$1.00

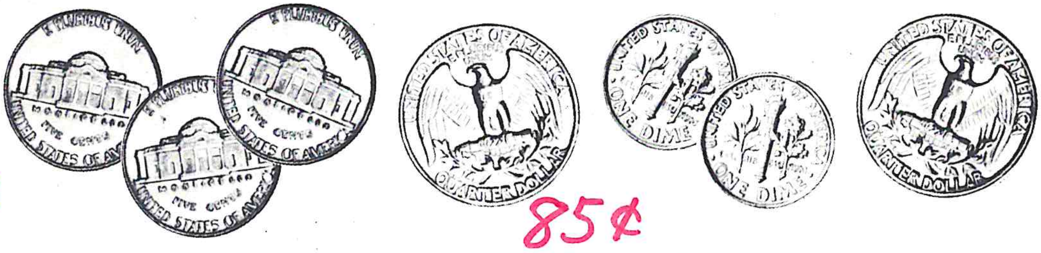
How many cents?

①



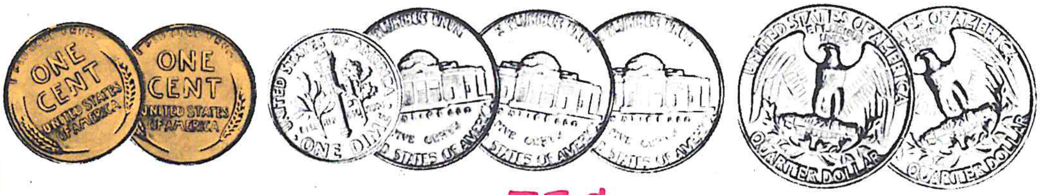
89¢

②



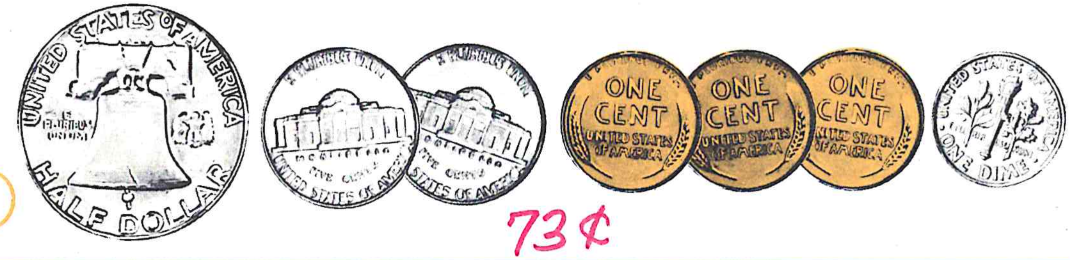
85¢

③



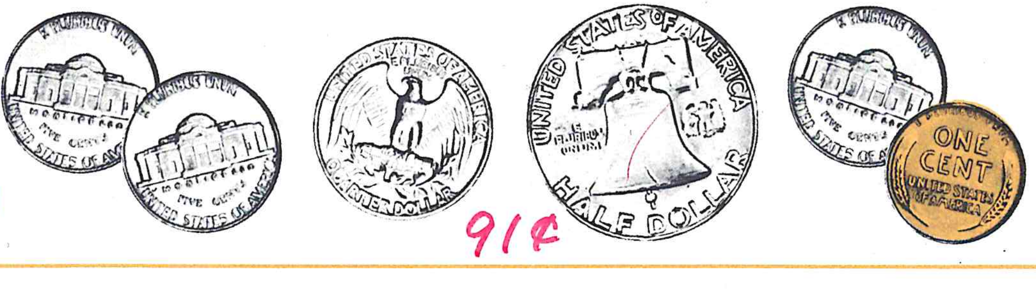
77¢

④



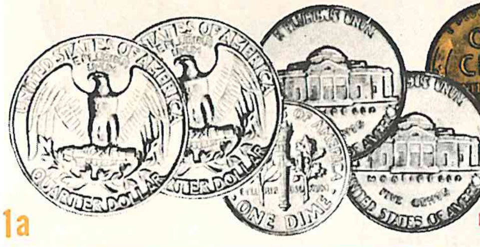
73¢

⑤



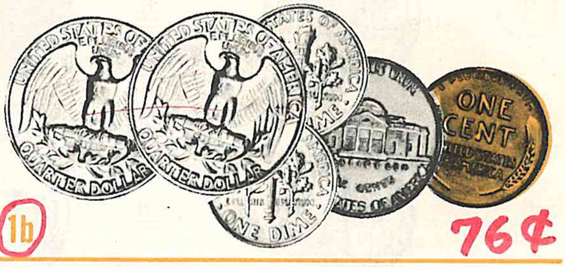
91¢

Which set of coins in each row has the greater value?



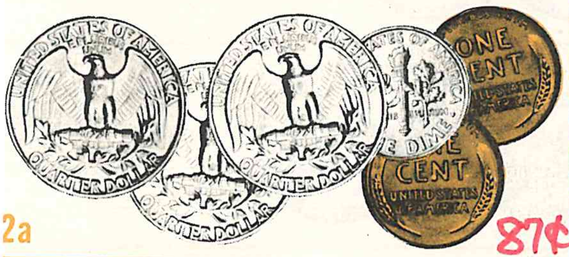
1a

71¢



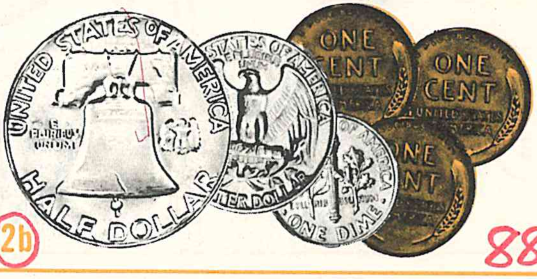
[✓ 1b]

76¢



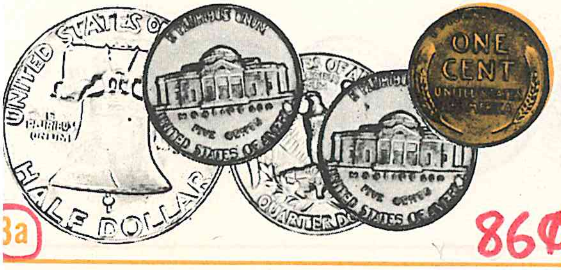
2a

87¢



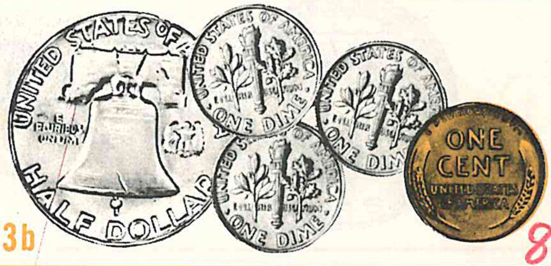
[✓ 2b]

88¢



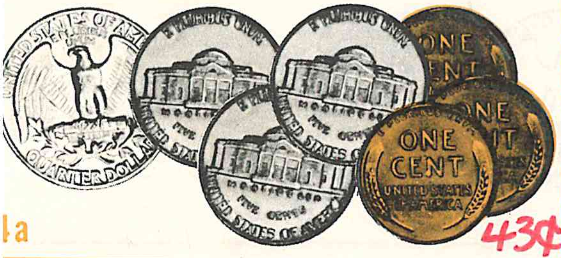
[✓ 3a]

86¢



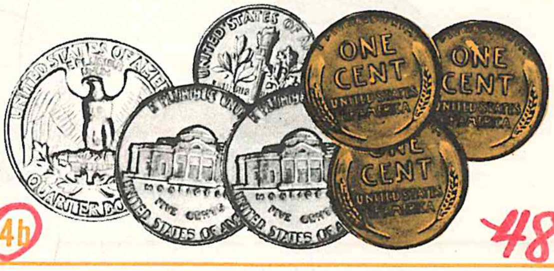
3b

81¢



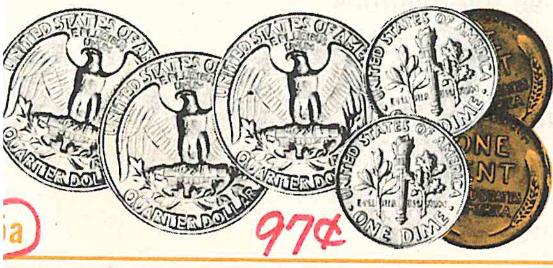
a

43¢



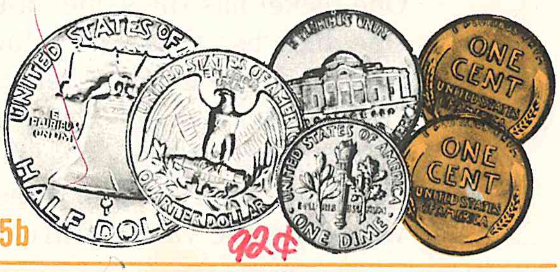
[✓ 4b]

48¢



[✓ a]

97¢



5b

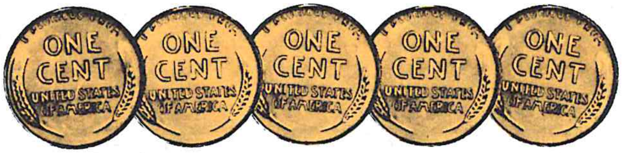
92¢

Note: Answers shown above are circled.

①

$\underline{\underline{m}}$

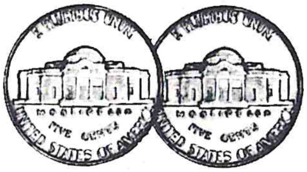
5¢



②

$\underline{\underline{m}}$

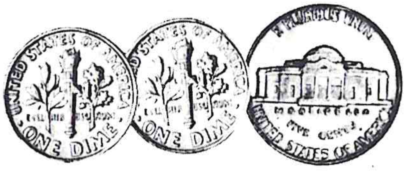
10¢



③

$\underline{\underline{m}}$

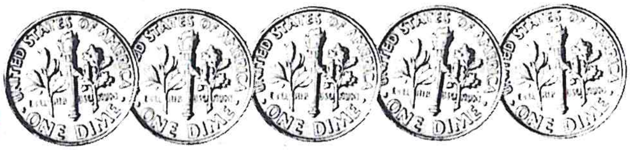
25¢



④

$\underline{\underline{m}}$

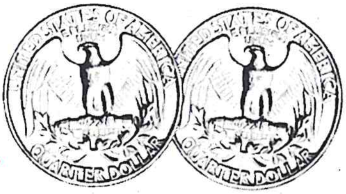
50¢



⑤

$\underline{\underline{m}}$

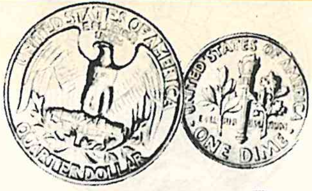
50¢



One nickel has the same value as five pennies.
One dime has the same value as any set of coins which has the value of ten cents.
One quarter has the same value as any set of coins which has the value of twenty-five cents.
One half-dollar has the same value as any set of coins which has the value of fifty cents.

How many?

1

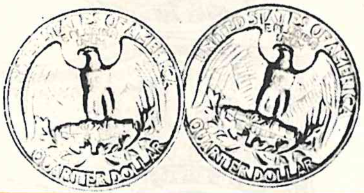


m

5 nickels and
10 pennies

(Other answers acceptable: 0-35, 1-30, 2-25, 3-20, 4-15, 6-5, and 7-0 - all in the order shown above.)

2

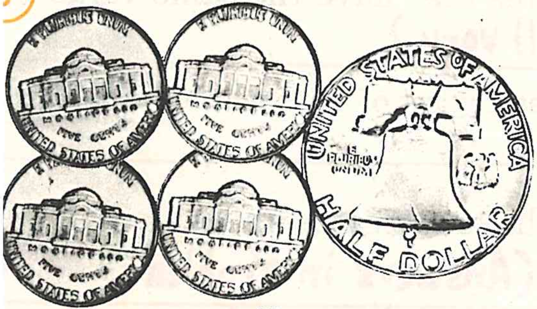


m

3 dimes and
4 nickels

(Other answers acceptable: 0-10, 1-8, 2-6, 4-2, and 5-0.)

3

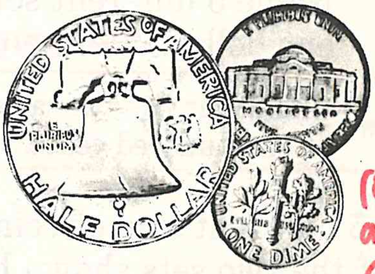


m

2 quarters and
4 dimes

Other answer acceptable: 0-9.)

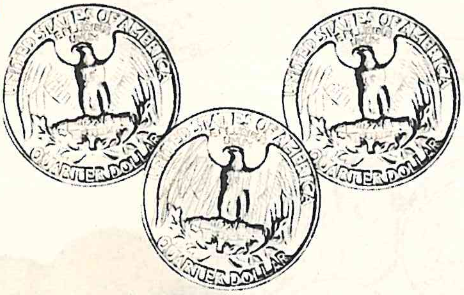
4



(Other answers acceptable: 0-65, 1-40.)

m

2 quarters and
15 pennies

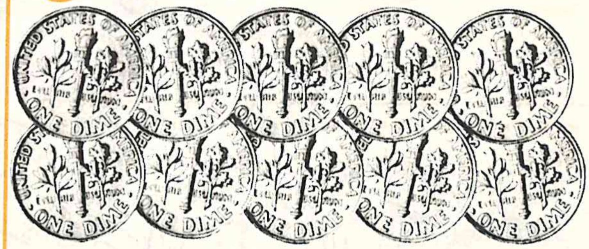


m

1 half-dollars and
5 nickels

Other answer acceptable: 0-15.)

6



m

1 half-dollars and
2 quarters

(Other answers acceptable: 0-2, 2-0.)

Copy and complete.

① one dollar $\overset{m}{=}$ 100 pennies

② one dollar $\overset{m}{=}$ 20 nickels

③ one dollar $\overset{m}{=}$ 10 dimes

④ one dollar $\overset{m}{=}$ 4 quarters

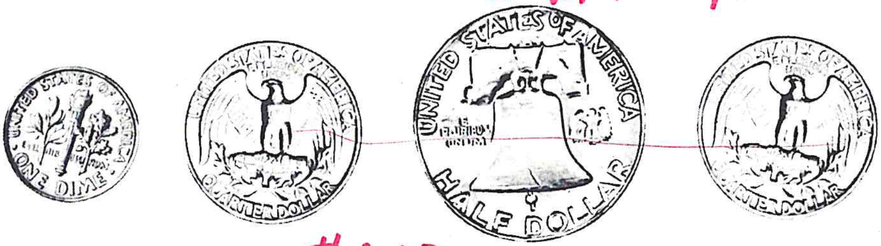
⑤ one dollar $\overset{m}{=}$ 2 half-dollars

⑥ Name 5 different sets of coins that have the same value as one dollar. (Answers will vary.)

One dollar has the same value as any set of coins which has the value of one hundred cents.

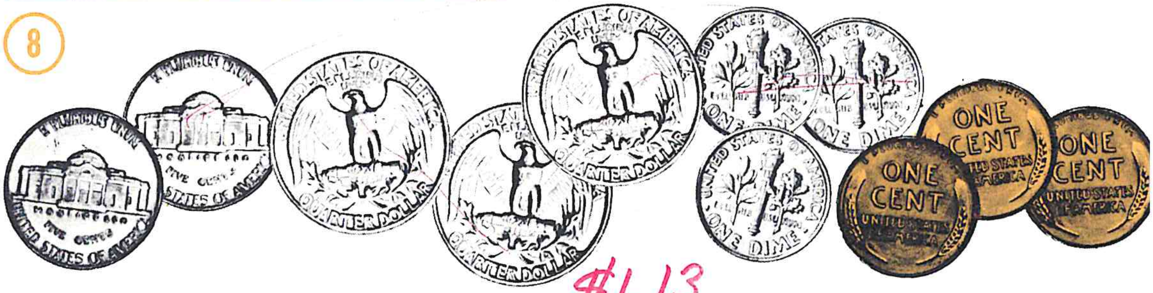
Name 5 different sets of coins that have the same value as each of the two sets shown below. (Answers in Problems 7 and 8 will vary.)

⑦



$1.10

⑧



$1.13

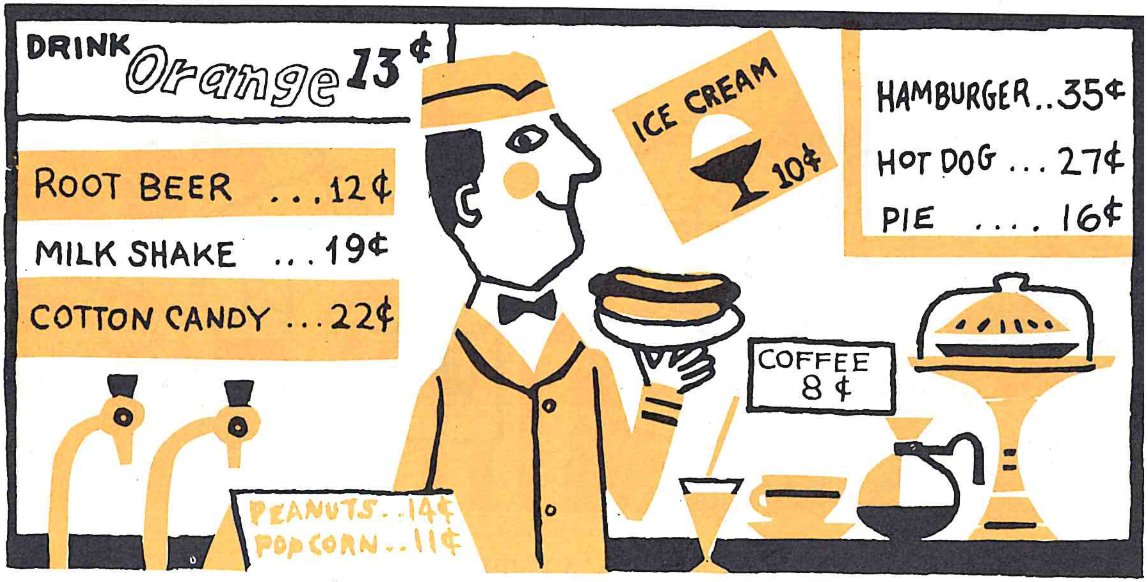
CARNIVAL TIME

Ferris wheel	15¢
Merry-go-round	20¢
Scooters	10¢
Airplanes	25¢
Loop-the-loop	30¢

Vork the story problems.

1. Father took Peter and Frank to the carnival. Father's ticket cost 35¢ and the boys' tickets cost 15¢ each. How much did Father pay the ticket seller? 65¢
2. Peter had two rides on the Ferris wheel, one ride on the loop-the-loop, and three rides on the scooters. How much did Peter's rides cost? 90¢
3. Frank had three rides on the scooters, two rides on the merry-go-round, and one ride on the airplanes. How much did Frank's rides cost? 95¢
4. Which boy paid more for his rides? How much more?

   Frank; 5¢



Work the story problems.

1. Frank bought a glass of root beer, a hot dog, a bag of popcorn, and a cotton candy cone.
   How much did he pay the man at the counter? 72¢
2. Father ordered a cup of coffee, a hamburger, and a piece of pie.
   How much did he pay for his food? 59¢
3. Peter asked for a hot dog, an orange drink, and a dish of ice cream. After his meal he wanted a bag of peanuts.
   How much did all of his food cost? 64¢
4. Who paid the most? Frank (72¢)
5. How much more did Frank pay than Father paid? 13¢
6. How much more did Frank pay than Peter paid? 8¢
7. How much more did Peter pay than Father paid? 5¢

We sometimes use the cent sign (¢) to show how many cents.

5 cents 5¢ 27 cents 27¢

When we want to show one dollar or amounts greater than one dollar we use the dollar sign ($) and separating point (.).

$1.00 $1.09 $2.16 $4.73

To show amounts less than one dollar we can use either the cent sign or the dollar sign and separating point.

56¢	$.56
70¢	$.70
5¢	$.05

Write each amount another way.

① 93¢ $.93

② 32¢ $.32

③ 3¢ $.03

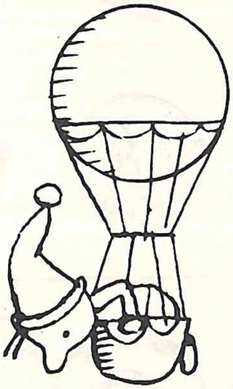
④ 56¢ $.56

⑤ $.63 63¢

⑥ $.79 79¢

⑦ $.20 20¢

⑧ $.07 7¢



⑨ one dollar and sixty cents $1.60

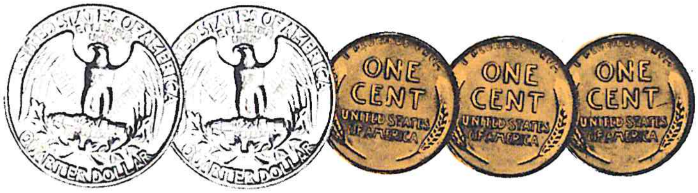
⑩ thirty-nine cents 39¢ or $.39

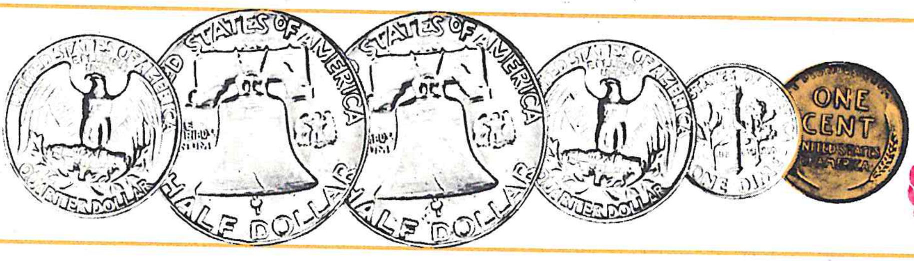
⑪ three dollars and seventeen cents $3.17

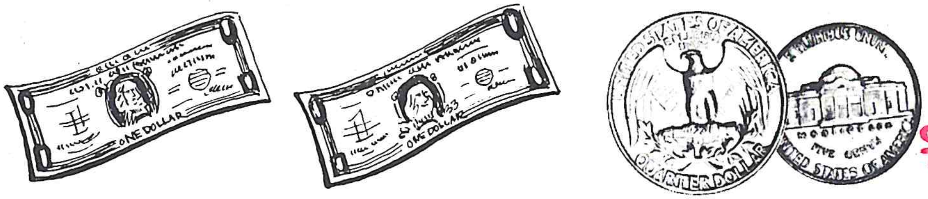
⑫ two dollars and two cents $2.02

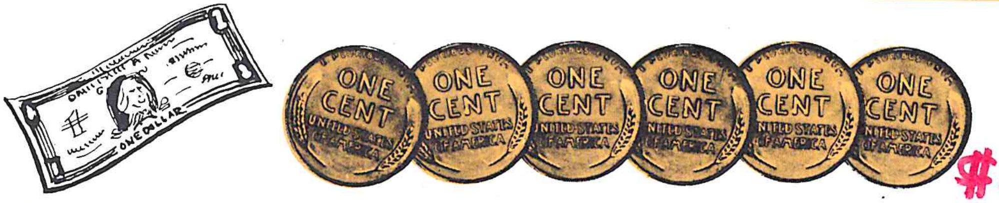
⑬ seventy-six cents 76¢ or $.76

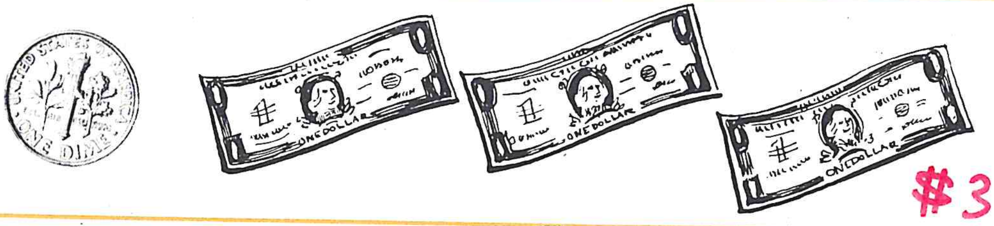
Find the value.

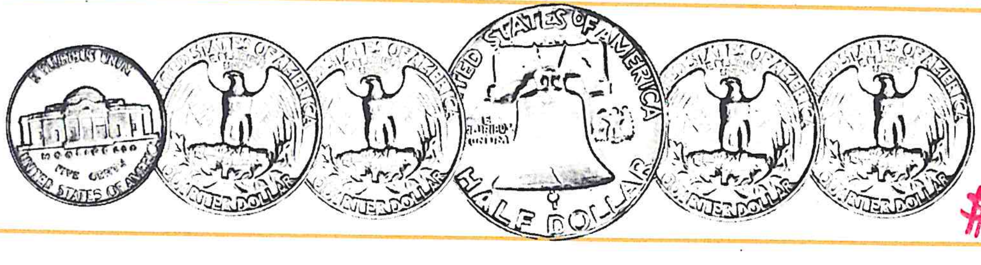
①

53¢

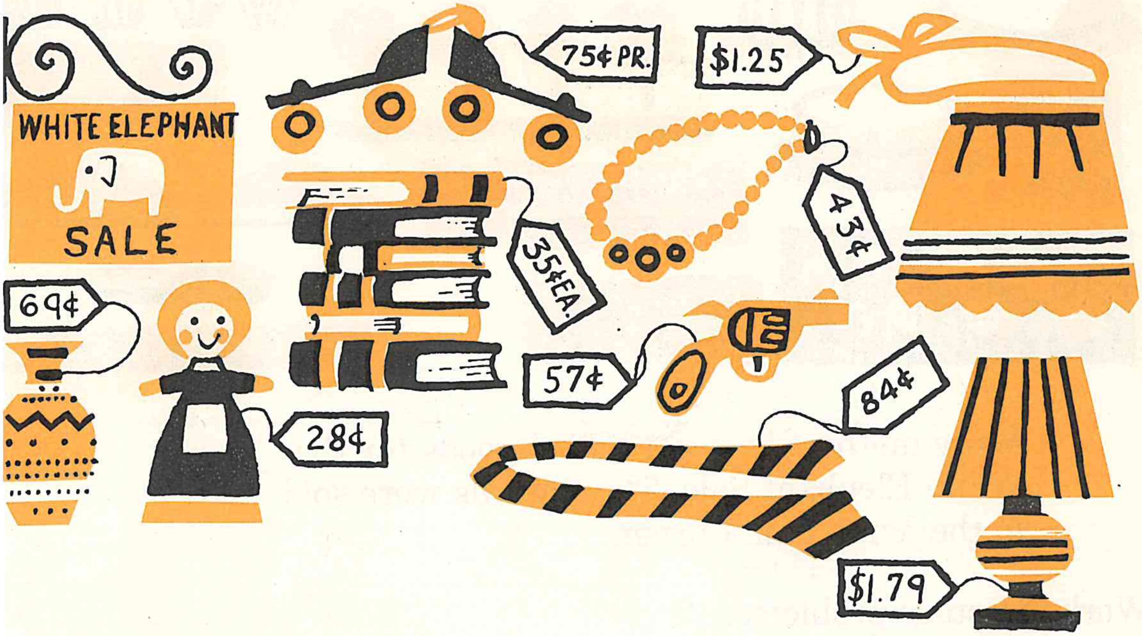
②

$1.61

③

$2.30

④

$1.06

⑤

$3.10

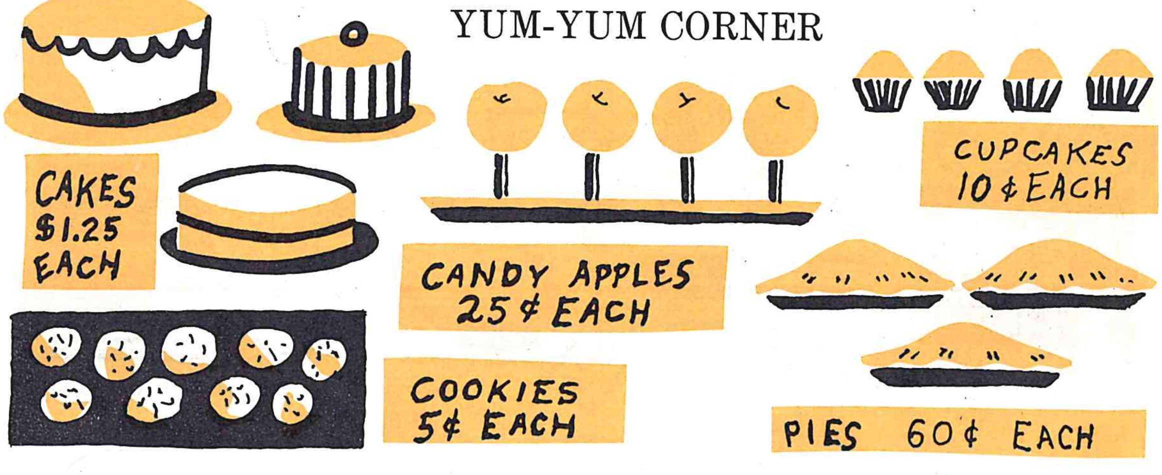
⑥

$1.55



Work the story problems.

The P.T.A. held a White Elephant Sale. They wanted to earn money to buy new swings for the playground.

1. George's mother gave a lamp, a vase, and a pair of George's old roller skates. How much did the P.T.A. earn from the sale of these items? $3.23
2. Mary bought George's roller skates and three books. How much did she pay? $1.80
3. Helen bought a tie for her father, an apron for her mother, and a doll for her little sister. Then she bought a necklace for herself. How much did she spend? $2.80
4. Ben had a quarter, three nickels, and eight pennies. How much more did he need to buy the gun? 9¢



Many mothers brought baked goods for the White Elephant Sale. These goods were sold in the Yum-Yum Corner.

Work the story problems.

1. Ben bought three cupcakes and three cookies.
   How much did he spend? 45¢
2. Debbie's mother bought a cake and six cookies.
   Then she bought a candy apple for Debbie.
   How much did she pay? $1.80
3. Bob had a dollar bill.
   How many candy apples could he buy? 4
4. Jane had a quarter.
   How many cookies could she buy? 5
5. Betty's mother worked in the Yum-Yum Corner for an hour. She sold one cake, two pies, three candy apples, eight cupcakes, and four cookies.
   How much money did she collect? $4.20

#44

Find the totals.

	A	B	C	D
①	35¢ +27¢ 62¢	46¢ +34¢ 80¢	16¢ +29¢ 45¢	73¢ +17¢ 90¢
②	54¢ + 8¢ 62¢	34¢ 25¢ +34¢ 93¢	11¢ 58¢ +18¢ 87¢	24¢ 13¢ +57¢ 94¢
③	40¢ 9¢ +48¢ 97¢	46¢ 13¢ +25¢ 84¢	$ .22 + .59 $.81	$ .36 + .08 $.44
④	$ .35 + .55 $.90	$ .69 + .23 $.92	$ .47 + .28 $.75	$ .39 .46 + .13 $.98
⑤	$ .17 .42 + .24 $.83	$ .45 .23 + .25 $.93	$ .16 .72 + .16 $1.04	$ .08 .31 + .68 $1.07
⑥	$ .34 + .97 $1.31	$ .68 + .48 $1.16	$ .72 + .29 $1.01	$ .56 + .85 $1.41

We do not add dollars and cents. We add numbers.

#45

Find the totals.

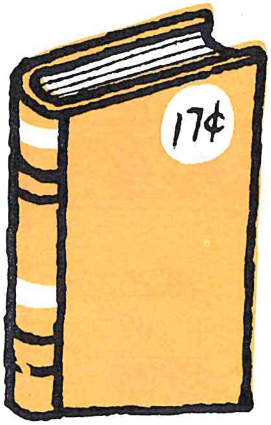
	A	B	C	D
①	$ .93 + .58 $1.51	$ .76 + .35 $1.11	$ .27 + .85 $1.12	$ .84 + .39 $1.23
②	$ .09 + .99 $1.08	$ .82 + .28 $1.10	$ .75 .03 + .42 $1.20	$ .35 .32 + .37 $1.04
③	$ .57 .31 + .66 $1.54	$ .44 .44 + .44 $1.32	$ .05 .73 + .86 $1.64	$ .64 .25 + .74 $1.63
④	$ .65 .22 + .56 $1.43	$ .23 .73 + .94 $1.90	$ .82 .15 + .83 $1.80	$ .18 .81 + .18 $1.17
⑤	$3.34 +2.57 $5.91	$4.16 + .78 $4.94	$7.62 +1.28 $8.90	$6.54 + .28 $6.82
⑥	$7.77 +1.19 $8.96	$6.43 +2.28 $8.71	$2.39 +6.48 $8.87	$9.26 + .66 $9.92

#46

Find the totals.

	A	B	C	D
①	$4.25 +4.68 $8.93	$5.43 +2.49 $7.92	$3.55 +3.36 $6.91	$4.89 + .19 $5.08
②	$5.27 +2.37 $7.64	$2.78 +3.18 $5.96	$6.28 +2.47 $8.75	$9.25 + .67 $9.92
③	$2.46 +5.98 $8.44	$6.25 +2.98 $9.23	$4.76 +3.85 $8.61	$5.34 +1.77 $7.11
④	$3.76 +4.27 $8.03	$6.78 +2.79 $9.57	$5.88 +1.99 $7.87	$4.47 +4.68 $9.15
⑤	$2.29 +4.77 $7.06	$5.06 +3.98 $9.04	$8.94 + .96 $9.90	$4.45 + .65 $5.10
⑥	$1.52 +7.59 $9.11	$3.13 +4.98 $8.11	$7.99 +1.22 $9.21	$4.03 +4.98 $9.01

① Susan went shopping. She bought a book which cost 17¢. How much change did she receive if she gave the man 25¢?



$17 + \boxed{8} = 25$

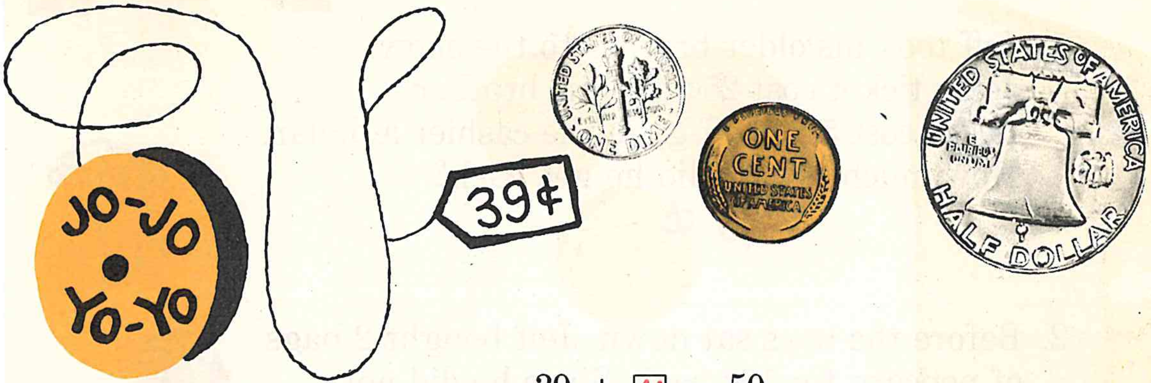
8¢ or $.08

Copy and complete.

	Cost	Change	Amount Given
②	12¢	3¢ or $.03	15¢
③	14¢	11¢ or $.11	25¢
④	19¢	6¢ or $.06	25¢
⑤	27¢	8¢ or $.08	35¢
⑥	39¢	6¢ or $.06	45¢
⑦	44¢	6¢ or $.06	50¢
⑧	28¢	22¢ or $.22	50¢
⑨	67¢	8¢ or $.08	75¢

When we make change we find a missing addend or subtract.

① Glen had $.50. He bought a yo-yo for $.39.
How much change did he receive?



$39 + \boxed{11} = 50$

$.11 or 11¢

Copy and complete.

	Cost	Change	Amount Given
②	$ .43	$.07 or 7¢	$ .50
③	$ .29	$.21 or 21¢	$ .50
④	$ .68	$.32 or 32¢	$1.00
⑤	$ .57	$.43 or 43¢	$1.00
⑥	$1.25	$.25 or 25¢	$1.50
⑦	$1.34	$.16 or 16¢	$1.50
⑧	$1.76	$.24 or 24¢	$2.00
⑨	$1.82	$.18 or 18¢	$2.00
⑩	$2.98	$.02 or 2¢	$3.00
⑪	$3.11	$.89 or 89¢	$4.00

TREAT TIME

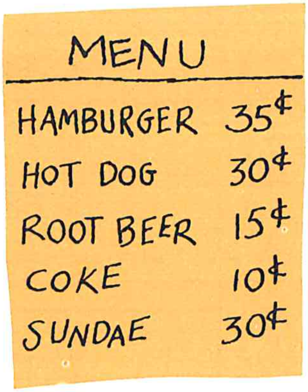
Work the story problems.

1. Jeff took his older brother to the show. Jeff's ticket cost 25¢ and his brother's ticket cost 50¢. Jeff gave the cashier a dollar. How much money did he get back?

   25¢

2. Before the boys sat down, Jeff bought 2 bags of popcorn for 15¢ each. Since he did not have enough change, he gave the man a dollar. How much money did he get back?

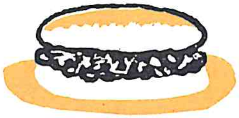
   70¢



MENU	
HAMBURGER	35¢
HOT DOG	30¢
ROOT BEER	15¢
COKE	10¢
SUNDAE	30¢

3. After the show the boys stopped at "The Snack Shop." Jeff had a hamburger and a coke. His brother had a chocolate sundae. How much did their snacks cost?

   75¢



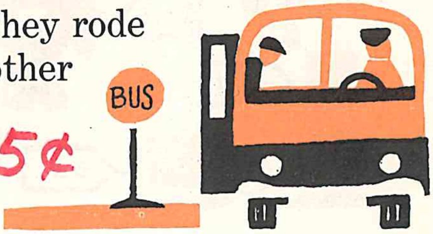
4. Jeff's brother paid the bill with a dollar. How much money did he get back?

   25¢

SHOPPING WITH MOTHER

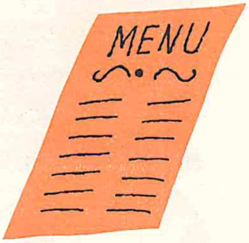
Work the story problems.

1. Ted needed a new pair of mittens. Mother and Ted went downtown to shop. They rode on the bus. It cost a quarter for Mother and a dime for Ted.
   How much money did they pay? 35¢

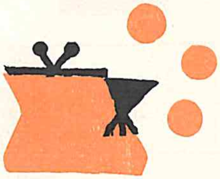


2. Ted found some blue mittens that he liked. They cost 87¢. Mother gave the clerk 1 dollar.
   How much change did the clerk give Mother?
   13¢

3. Mother took Ted to a cafeteria for lunch. She gave him a half-dollar and 2 quarters. Ted got a hot dog for 25¢, French fried potatoes for 30¢, milk for 10¢, and some fruit for 25¢.
   How much did his lunch cost? 90¢
   How much money did Ted get back from the cashier? 10¢

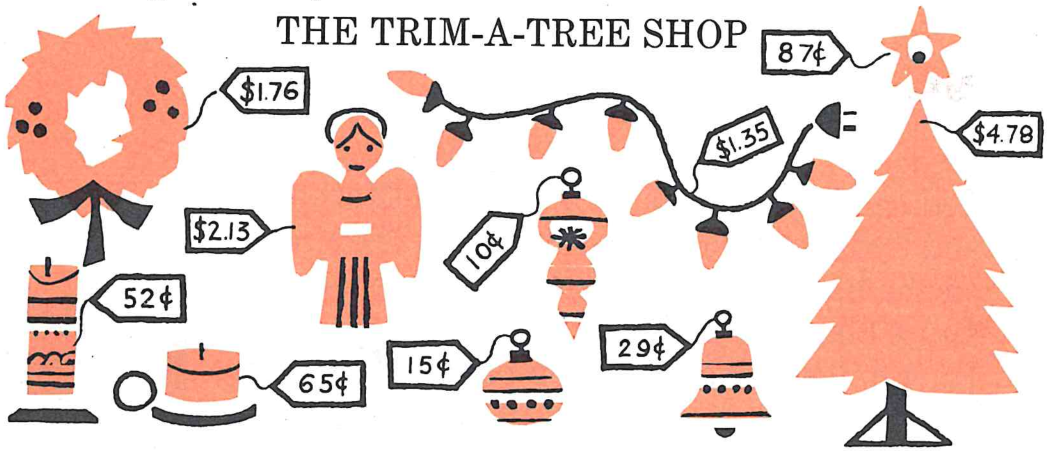


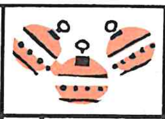
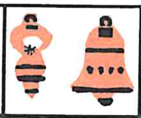
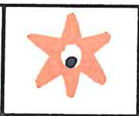
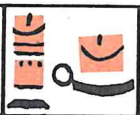
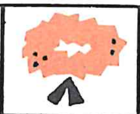
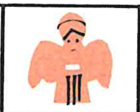
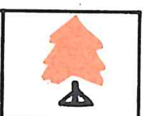
4. For lunch Mother bought a bowl of soup for 30¢, a salad for 45¢ and tea for 15¢.
   How much did her lunch cost? 90¢
   If she gave the cashier one dollar, how much money did she get back? 10¢



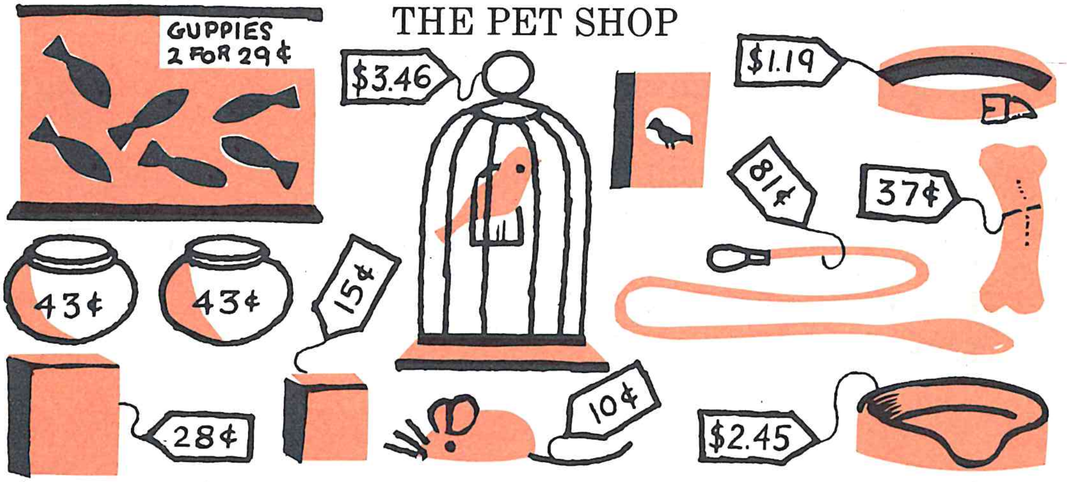
What change would you receive?

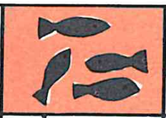
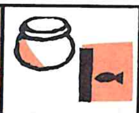
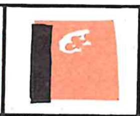
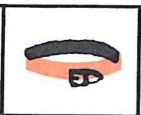
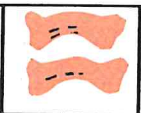
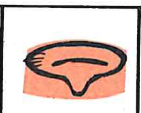
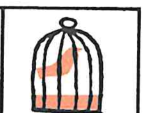
THE TRIM-A-TREE SHOP



Items Purchased							
Amount Given	1 5¢ 50¢	2 11¢ 50¢	3 13¢ $1.00	4 33¢ $1.50	5 24¢ $2.00	6 $2.87 $5.00	7 22¢ $5.00

THE PET SHOP



Items Purchased							
Amount Given	8 17¢ 75¢	9 2¢ 60¢	10 7¢ 35¢	11 31¢ $1.50	12 26¢ $1.00	13 55¢ $3.00	14 $1.54 $5.00

Note: All answers pertaining to the question are listed above amounts given.

#47

PLACE VALUE

Find the amounts.

	A	B	C	D	E
①	35¢ −16¢ 19¢	54¢ −18¢ 36¢	72¢ −27¢ 45¢	43¢ −25¢ 18¢	87¢ −38¢ 49¢
②	90¢ −26¢ 64¢	80¢ −32¢ 48¢	60¢ −19¢ 41¢	40¢ −17¢ 23¢	70¢ −58¢ 12¢
③	$ .67 − .48 $.19	$ .98 − .59 $.39	$ .81 − .36 $.45	$ .74 − .57 $.17	$ .45 − .18 $.27
④	$ .50 − .37 $.13	$ .90 − .48 $.42	$ .70 − .33 $.37	$ .60 − .22 $.38	$ .80 − .54 $.26
⑤	$4.62 −2.35 $2.27	$8.96 −1.48 $7.48	$9.35 −2.18 $7.17	$5.86 − .69 $5.17	$2.80 − .65 $2.15
⑥	$5.30 − .19 $5.11	$6.60 −2.27 $4.33	$3.40 −1.24 $2.16	$2.45 −1.36 $1.09	$6.83 −3.55 $3.28
⑦	$3.75 −1.29 $2.46	$7.86 −2.68 $5.18	$8.70 −3.42 $5.28	$9.90 −4.86 $5.04	$5.20 −2.13 $3.07

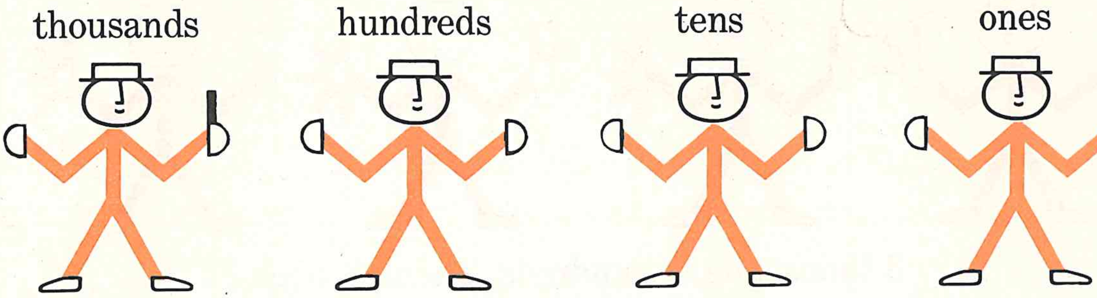
We do not subtract dollars and cents.
We subtract numbers.

#48

Find the amounts.

	A	B	C	D	E
①	$4.50 – .28 $4.22	$5.38 –2.74 $2.64	$3.15 –1.62 $1.53	$2.46 –1.63 $ .83	$9.16 –5.34 $3.82
②	$4.02 –1.51 $2.51	$3.03 –1.81 $1.22	$6.06 –2.73 $3.33	$7.09 –2.35 $4.74	$8.28 –1.87 $6.41
③	$7.17 –4.53 $2.64	$4.22 –2.91 $1.31	$5.77 –3.86 $1.91	$1.08 – .45 $ .63	$3.07 – .36 $2.71
④	$7.03 – .52 $6.51	$9.02 – .91 $8.11	$3.66 –1.79 $1.87	$2.45 –1.66 $ .79	$8.88 –4.99 $3.89
⑤	$9.16 –5.89 $3.27	$5.00 –2.34 $2.66	$6.00 –3.72 $2.28	$9.00 –4.65 $4.35	$3.00 –1.99 $1.01
⑥	$5.41 –2.93 $2.48	$4.51 –1.84 $2.67	$7.82 –2.95 $4.87	$2.64 –1.87 $ .77	$7.00 –1.50 $5.50
⑦	$4.00 –1.36 $2.64	$8.00 –3.64 $4.36	$2.00 –1.98 $ .02	$6.18 –4.91 $1.27	$8.07 –3.59 $4.48

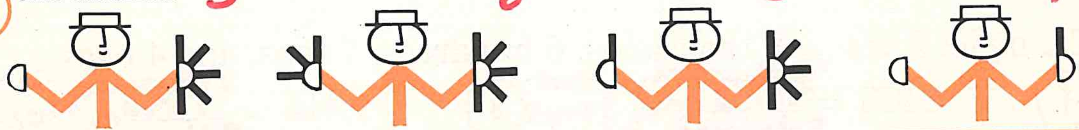
PLACE VALUE



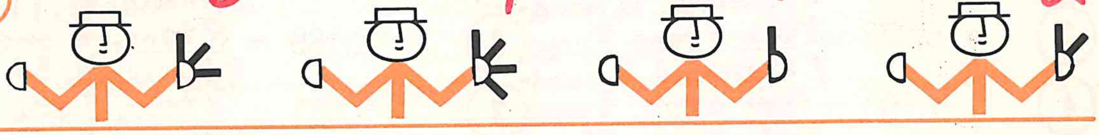
1 thousand, 0 hundreds, 0 tens, 0 ones
1,000

Write a numeral for each number shown by the Countingmen.

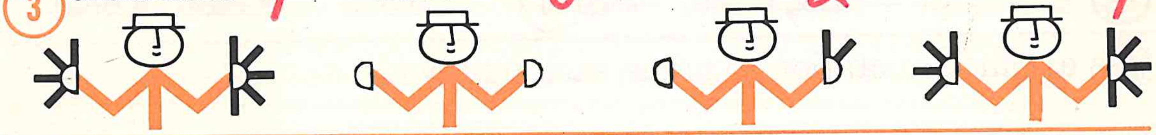
① thousands 5 hundreds 8 tens 6 ones 1



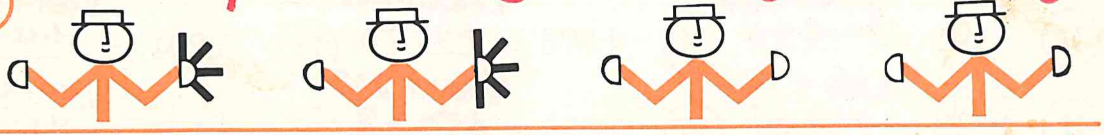
② thousands 3 hundreds 4 tens 1 ones 2



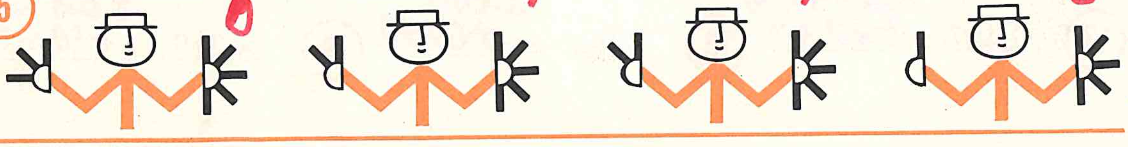
③ thousands 9 hundreds 0 tens 2 ones 9

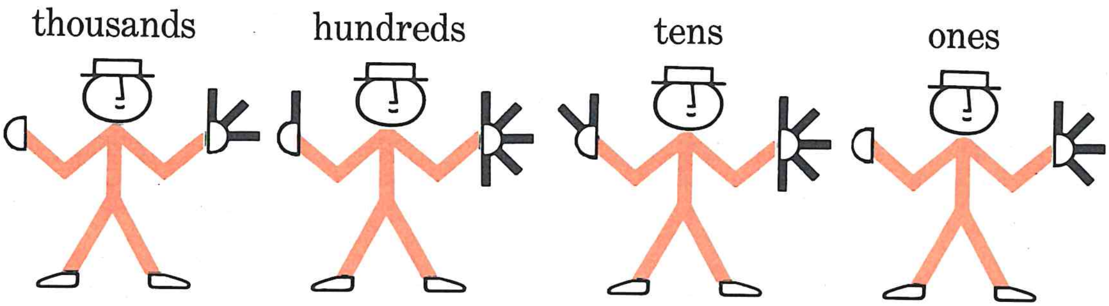


④ thousands 4 hundreds 5 tens 0 ones 0



⑤ thousands 8 hundreds 7 tens 7 ones 6





3 thousands, 6 hundreds, 7 tens, 4 ones.
3,000 + 600 + 70 + 4
3,674

How many thousands, hundreds, tens, and ones are in the following?

Example: 3,674 = 3 thousands, 6 hundreds, 7 tens, and 4 ones.

① 8,325 = 8 thousands, 3 hundreds, 2 tens, 5 ones
② 5,593 = 5 thousands, 5 hundreds, 9 tens, 3 ones
③ 6,278 = 6 thousands. 2 hundreds, 7 tens, 8 ones
④ 1,760 = 1 thousand, 7 hundreds, 6 tens, 0 ones
⑤ 3,907 = 3 thousands, 9 hundreds, 0 tens, 7 ones

⑥ 7,414 = 7 thousands, 4 hundred 1 ten, 4 ones
⑦ 4,052 = 4 thousands, 0 hundre 5 tens, 2 ones
⑧ 2,189 = 2 thousands, 1 hundre 8 tens, 9 ones
⑨ 9,631 = 9 thousands, 6 hundre 3 tens, 1 one
⑩ 6,500 = 6 thousands, 5 hundre 0 tens, 0 ones

Use expanded notation to name each number.

Example: 3,674 = 3,000 + 600 + 70 + 4.

⑪ 7,649 = 7,000+600 +40+9
⑫ 2,731 = 2,000+700 +30+1
⑬ 6,427 = 6,000+400 +20+7

⑭ 4,876 = 4,000+800 +70+6
⑮ 1,358 = 1,000+300 +50+8
⑯ 3,062 = 3,000 +60+2

⑰ 5,204 = 5,000+200 +4
⑱ 9,180 = 9,000+100 +80
⑲ 8,912 = 8,000+900 +10+2

Copy and complete each equation.

① 2,000 + 900 + 40 + 6 = □ 2,946

② 7,000 + 200 + 80 + 2 = □ 7,282

③ 5,000 + 400 + 30 + 7 = □ 5,437

④ 1,000 + 600 + 90 + 3 = □ 1,693

⑤ 8,000 + 500 + 50 + 9 = □ 8,559

⑥ 4,000 + 100 + 20 + 8 = □ 4,128

⑦ 6,000 + 300 + 10 + □ 4 = 6,314

⑧ 3,000 + 800 + 70 + □ 0 = 3,870

⑨ 9,000 + 700 + □ 60 + 5 = 9,765

⑩ 8,000 + 100 + □ 90 + 1 = 8,191

⑪ 1,000 + □ 500 + 20 + 9 = 1,529

⑫ 4,000 + □ 600 + 40 + 7 = 4,647

⑬ □ 2,000 + 200 + 50 + 2 = 2,252

⑭ □ 7,000 + 300 + 60 + 8 = 7,368

ADDITION AND SUBTRACTION

Find the sums.

	A	B	C	D	E
①	7,324 +2,161 9,485	6,243 +3,525 9,768	5,231 +4,763 9,994	3,741 +3,256 6,997	8,263 +1,427 9,690
②	2,948 +4,037 6,985	3,346 +4,625 7,971	5,506 +3,478 8,984	3,249 +2,360 5,609	6,492 +3,413 9,905
③	5,888 +2,041 7,929	4,151 +3,267 7,418	2,367 +2,246 4,613	1,749 +7,164 8,913	2,685 +6,297 8,982
④	4,173 +4,258 8,431	5,468 +1,765 7,233	2,326 +5,589 7,915	4,287 +3,767 8,054	5,798 +2,468 8,266
⑤	8,493 +1,378 9,871	6,648 +2,375 9,023	4,983 +2,145 7,128	6,761 +2,548 9,309	3,372 +5,681 9,053
⑥	4,361 +4,285 8,646	3,297 +6,587 9,884	2,502 +4,748 7,250	5,768 +1,256 7,024	3,585 +2,874 6,459
⑦	2,368 +6,799 9,167	4,268 +3,613 7,881	3,473 +3,599 7,072	1,874 +7,268 9,142	5,999 +2,002 8,001
⑧	4,487 +5,253 9,740	1,376 2,348 +4,206 7,930	2,541 1,949 +3,786 8,276	206 7,277 +1,689 9,172	1,268 5,468 +2,275 9,011

Find the differences.

	A	B	C	D	E
①	9,276 −1,243 8,033	7,495 −6,154 1,341	5,874 −3,423 2,451	4,753 −2,551 2,202	9,619 −2,124 7,495
②	6,549 −2,179 4,370	9,715 −7,582 2,133	3,672 −2,391 1,281	6,335 −4,278 2,057	6,862 −2,269 4,593
③	8,245 −1,157 7,088	7,628 −3,459 4,169	7,686 −4,835 2,851	4,268 −3,743 525	9,397 −3,581 5,816
④	5,298 −2,666 2,632	6,472 −4,684 1,788	8,612 −5,948 2,664	8,234 −7,338 896	3,316 −1,457 1,859
⑤	5,645 −3,937 1,708	6,241 −3,699 2,542	8,564 −2,977 5,587	7,321 −1,555 5,766	4,144 −1,356 2,788
⑥	9,616 −5,825 3,791	7,323 −5,789 1,534	8,214 −5,375 2,839	9,256 −2,981 6,275	7,439 −4,861 2,578
⑦	5,171 −1,492 3,679	6,378 −5,434 944	7,421 − 985 6,436	3,517 −2,768 749	1,491 −1,268 223
⑧	6,543 − 476 6,067	9,327 − 846 8,481	5,324 −2,576 2,748	2,984 − 73 2,911	7,248 −2,529 4,719

Find the sums and differences.

	A	B	C	D	E
①	3,690 −2,765 925	9,856 −3,169 6,687	8,161 −4,387 3,774	5,740 −3,461 2,279	6,608 −4,327 2,281
②	7,278 −4,389 2,889	4,117 −3,980 137	2,301 −1,456 845	9,013 −2,248 6,765	3,245 −2,697 548
③	7,722 −5,987 1,735	2,490 − 897 1,593	8,432 −6,296 2,136	9,230 −2,468 6,762	5,730 −4,753 977
④	3,130 −1,574 1,556	6,200 −2,579 3,621	7,240 −2,959 4,281	8,000 −5,466 2,534	5,005 −2,389 2,616
⑤	7,260 −4,327 2,933	8,390 −2,565 5,825	5,640 +2,981 8,521	3,570 +2,179 5,749	5,104 −1,368 3,736
⑥	4,007 +3,538 7,545	6,043 +2,865 8,908	4,407 −2,518 1,889	6,001 − 27 5,974	4,029 +2,076 6,105
⑦	3,999 −2,041 1,958	1,876 +6,995 8,871	2,784 +5,375 8,159	8,155 −3,479 5,676	3,316 +3,687 7,003
⑧	2,110 −1,264 846	4,859 + 845 5,704	7,030 − 368 6,662	5,440 −2,369 3,071	5,504 +3,737 9,241

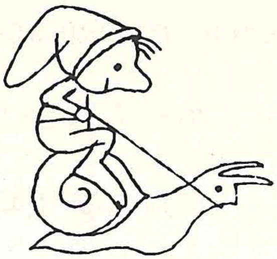
Copy each problem and write the correct numeral in each □.

	A	B	C
①	$\begin{array}{r} 6{,}3\boxed{2}1 \\ +\ 2{,}\boxed{5}48 \\ \hline \boxed{8}{,}86\boxed{9} \end{array}$	$\begin{array}{r} 3{,}2\boxed{6}7 \\ +\ \boxed{4}{,}526 \\ \hline 7{,}\boxed{7}9\boxed{3} \end{array}$	$\begin{array}{r} \boxed{3}{,}47\boxed{2} \\ +\ 5{,}6\boxed{5}9 \\ \hline 9{,}\boxed{1}31 \end{array}$
②	$\begin{array}{r} \boxed{8}{,}\boxed{2}\boxed{7}\boxed{5} \\ +\ 1{,}573 \\ \hline 9{,}848 \end{array}$	$\begin{array}{r} 2{,}\boxed{2}72 \\ +\ \boxed{3}{,}69\boxed{6} \\ \hline 5{,}9\boxed{6}8 \end{array}$	$\begin{array}{r} 5{,}324 \\ +\ \boxed{4}{,}\boxed{2}\boxed{8}\boxed{4} \\ \hline 9{,}608 \end{array}$
③	$\begin{array}{r} \boxed{5}{,}46\boxed{8} \\ +\ 1{,}2\boxed{8}6 \\ \hline 6{,}754 \end{array}$	$\begin{array}{r} \boxed{2}{,}5\boxed{5}7 \\ +\ 7{,}\boxed{3}43 \\ \hline 9{,}90\boxed{0} \end{array}$	$\begin{array}{r} \boxed{6}{,}268 \\ +\ 2{,}4\boxed{9}3 \\ \hline 8{,}\boxed{7}6\boxed{1} \end{array}$
④	$\begin{array}{r} 2{,}7\boxed{4}8 \\ +\ \boxed{1}{,}\boxed{4}92 \\ \hline 4{,}24\boxed{0} \end{array}$	$\begin{array}{r} \boxed{2}{,}64\boxed{3} \\ +\ 1{,}5\boxed{7}9 \\ \hline 4{,}\boxed{2}22 \end{array}$	$\begin{array}{r} \boxed{5}{,}57\boxed{8} \\ +\ 2{,}7\boxed{9}5 \\ \hline 8{,}\boxed{3}73 \end{array}$

Copy each problem and write the correct numeral in each $\boxed{}$.

	A	B	C
①	$\begin{array}{r} 6{,}\boxed{9}58 \\ -\;2{,}3\boxed{3}3 \\ \hline \boxed{4}{,}62\boxed{5} \end{array}$	$\begin{array}{r} \boxed{7}{,}\boxed{9}\boxed{7}\boxed{0} \\ -\;3{,}465 \\ \hline 4{,}505 \end{array}$	$\begin{array}{r} 5{,}\boxed{7}7\boxed{0} \\ -\;\boxed{2}{,}454 \\ \hline 3{,}3\boxed{1}6 \end{array}$
②	$\begin{array}{r} 7{,}807 \\ -\;\boxed{5}{,}\boxed{1}\boxed{8}\boxed{2} \\ \hline 2{,}625 \end{array}$	$\begin{array}{r} \boxed{4}{,}82\boxed{9} \\ -\;2{,}\boxed{1}38 \\ \hline 2{,}6\boxed{9}1 \end{array}$	$\begin{array}{r} 7{,}4\boxed{0}8 \\ -\;\boxed{6}{,}365 \\ \hline 1{,}\boxed{0}4\boxed{3} \end{array}$
③	$\begin{array}{r} \boxed{9}{,}379 \\ -\;6{,}8\boxed{0}5 \\ \hline 2{,}\boxed{5}7\boxed{4} \end{array}$	$\begin{array}{r} 3{,}46\boxed{6} \\ -\;1{,}\boxed{7}\boxed{0}4 \\ \hline \boxed{1}{,}762 \end{array}$	$\begin{array}{r} 6{,}3\boxed{7}8 \\ -\;4{,}\boxed{9}7\boxed{7} \\ \hline \boxed{1}{,}401 \end{array}$
④	$\begin{array}{r} \boxed{7}{,}4\boxed{9}2 \\ -\;3{,}795 \\ \hline 3{,}69\boxed{7} \end{array}$	$\begin{array}{r} 8{,}\boxed{2}56 \\ -\;\boxed{4}{,}7\boxed{9}\boxed{8} \\ \hline 3{,}458 \end{array}$	$\begin{array}{r} \boxed{4}{,}\boxed{0}\boxed{0}\boxed{1} \\ -\;2{,}768 \\ \hline 1{,}233 \end{array}$

PLACE VALUE



Ten Thousands	Thousands	Hundreds	Tens	Ones		
				1	one	1
			1	0	ten	10
		1	0	0	one hundred	100
	1	0	0	0	one thousand	1,000
1	0	0	0	0	ten thousand	10,000

Write a different numeral for each number.

① Eighty-seven thousand, five hundred twenty-eight 87,528

② Ninety-five thousand, two hundred eighty-five 95,285

③ Thirty-two thousand, seven hundred forty two 32,742

④ Twenty-four thousand, three hundred ten 24,310

⑤ Thirteen thousand, nine hundred sixty-four 13,964

⑥ Sixty thousand, one hundred one 60,101

Copy each problem and write the correct sign, > or <, in each ○.

⑦ and the others follow the printed numbering:

①	36,147 > 26,247	⑦	46,951 > 46,950
②	44,503 > 4,453	⑧	10,355 < 10,455
③	83,531 < 87,431	⑨	77,788 < 77,888
④	61,966 > 61,696	⑩	95,678 < 95,679
⑤	54,782 < 55,781	⑪	53,220 > 53,210
⑥	12,345 < 12,354	⑫	83,362 < 83,632

Rewrite the numerals to show the order of the numbers.

⑬ From greatest to least:

87,775	~~26,382~~ 94,010
47,235	87,775
87,575	87,755
94,010	87,575
26,382	47,235
87,755	46,236
46,236	26,382

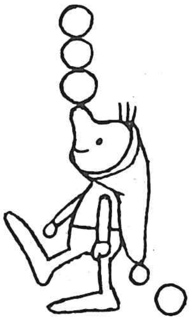
⑭ From least to greatest:

33,476	14,621
68,104	15,520
14,621	32,478
33,477	33,476
68,194	33,477
15,520	68,104
32,478	68,194

Find the sums and differences.

	A	B	C	D	E
①	43,625 +25,372 68,997	78,365 +11,424 89,789	30,512 +29,362 59,874	54,793 +14,206 68,999	56,129 +21,445 77,574
②	20,726 +19,257 39,983	86,355 +12,328 98,683	64,248 +32,137 96,385	56,318 +41,396 97,714	12,716 +64,189 76,905
③	27,454 +32,257 59,711	38,375 +10,597 48,972	14,205 +51,796 66,001	40,567 +18,483 59,050	44,279 +53,958 98,237
④	43,573 +13,648 57,221	16,549 +34,853 51,402	56,278 +36,982 93,260	28,309 +24,896 53,205	43,987 +46,479 90,466
⑤	85,684 −23,261 62,423	73,698 −52,463 21,235	59,766 −45,235 14,531	67,954 −14,722 53,232	35,851 −11,432 24,419
⑥	97,643 −83,624 14,019	25,965 −14,339 11,626	82,740 −51,618 31,122	77,542 −56,387 21,155	78,525 −16,186 62,339
⑦	95,631 −21,465 74,166	40,902 −27,553 13,349	66,245 −22,797 43,448	77,132 −41,389 35,743	67,300 −35,462 31,838
⑧	88,562 −41,784 46,778	47,334 −27,326 20,008	92,010 −36,776 55,234	82,357 −39,568 42,789	61,523 −44,725 16,798

PLACE VALUE



Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones		
					1	one	1
				1	0	ten	10
			1	0	0	one hundred	100
		1	0	0	0	one thousand	1,000
	1	0	0	0	0	ten thousand	10,000
1	0	0	0	0	0	one hundred thousand	100,000

Write a different numeral for each number.

① Four hundred ninety-three thousand, eight hundred seventy-nine 493,879

② Six hundred thirty-one thousand, two hundred thirty 631,230

③ Eight hundred forty-six thousand, six hundred four 846,604

④ Seven hundred fifty-one thousand, seven hundred ninety-eight 751,798

⑤ Five hundred seventy thousand, four hundred fifty-seven 570,457

⑥ Two hundred twenty-nine thousand, sixty-two 229,062

Copy each problem and write the correct sign, > or <, in each ○.

① 333,005 > 244,006

② 329,971 < 429,871

③ 642,953 > 64,954

④ 226,549 < 266,548

⑤ 708,618 < 780,600

⑥ 565,427 > 56,542

⑦ 898,731 < 989,730

⑧ 851,262 < 891,261

⑨ 676,079 > 670,769

⑩ 183,789 < 183,987

⑪ 170,384 > 170,348

⑫ 362,541 < 362,542

Rewrite the numerals to show the order of the numbers.

⑬ From greatest to least:

539,342	863,510
146,759	755,987
863,510	755,897
755,987	539,342
529,344	529,344
311,063	311,063
755,897	146,759

⑭ From least to greatest:

667,888	270,381
301,495	273,081
667,788	301,495
270,381	301,496
301,496	667,788
667,789	667,789
273,081	667,888

Find the sums.

	A	B	C
①	315,427 +252,462 567,889	840,234 +113,755 953,989	544,241 +254,738 798,979
②	236,213 +631,478 867,691	375,228 +214,136 589,364	576,398 +123,499 699,897
③	124,868 +243,263 368,131	822,986 +156,457 979,443	567,509 +323,493 891,002
④	419,396 +265,174 684,570	734,577 +158,498 893,075	324,507 +237,896 562,405
⑤	543,206 +356,895 900,101	268,949 +434,861 703810	629,795 +290,569 920,364

Find the differences.

	A	B	C
①	938,461 −216,351 722,110	868,787 −547,226 321,561	743,205 −312,158 431,047
②	632,951 −310,876 322,075	678,643 −265,299 413,344	897,455 −566,697 330,758
③	936,721 −525,689 411,032	949,285 −127,386 821,899	956,472 −825,494 130,978
④	974,135 −456,489 517,646	681,875 −431,926 249,849	778,030 −588,649 189,381
⑤	543,181 −187,699 355,482	748,006 −157,589 590,417	924,392 −726,189 198,203
⑥	789,440 −543,238 246,202	584,243 −252,445 331,798	608,012 −434,275 173,737

PLACE VALUE

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones		
						1	one	1
					1	0	ten	10
				1	0	0	one hundred	100
			1	0	0	0	one thousand	1,000
		1	0	0	0	0	ten thousand	10,000
	1	0	0	0	0	0	one hundred thousand	100,000
1	0	0	0	0	0	0	one million	1,000,000

Write a different numeral for each number.

① Five million, six hundred twenty-two thousand, four hundred sixteen 5,622,416

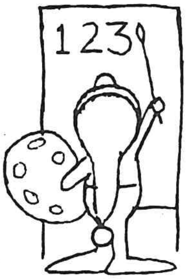
② One million, three hundred seventy-nine thousand, eight hundred forty-three 1,379,843

③ Seven million, eight hundred thirty-six thousand, five hundred sixty-one 7,836,561

④ Three million, two hundred sixty-four thousand, one hundred seventy-two 3,264,172

⑤ Four million, fifty-seven thousand, three hundred eighty 4,057,380

⑥ Nine million, five hundred thousand, fifty-six 9,500,056



Copy each problem and write the correct sign, > or <, in each ○.

① 8,167,935 > 816,793

② 1,700,395 < 2,509,682

③ 7,885,066 < 8,775,066

④ 437,997 < 4,377,957

⑤ 4,934,100 > 4,734,103

⑥ 7,162,803 < 7,621,802

⑦ 9,759,279 > 9,649,289

⑧ 3,094,772 > 3,093,857

⑨ 6,008,531 < 6,009,531

⑩ 5,427,961 > 5,427,691

⑪ 2,556,428 < 2,566,428

⑫ 1,843,029 > 1,834,920

Rewrite the numerals to show the order of the numbers.

⑬ From greatest to least:

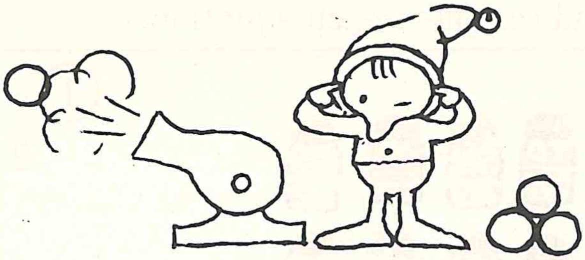
5,323,209	6,724,321
2,303,408	5,362,870
3,841,409	5,323,209
1,364,832	4,409,836
4,409,324	4,409,324
6,724,321	3,841,409
5,362,870	2,303,408
4,409,836	1,364,832

⑭ From least to greatest:

8,223,651	2,851,673
4,774,090	4,477,091
5,186,344	4,774,090
2,851,673	5,186,326
5,186,326	5,186,327
8,233,561	5,186,344
4,477,091	8,223,651
5,186,327	8,223,561

Find the sums.

	A	B	C
①	2,339,685 +2,547,336 4,887,021	5,218,289 +4,532,571 9,750,860	6,713,827 +3,156,461 9,870,288
②	7,434,249 +2,476,075 9,910,324	2,139,521 +7,494,386 9,633,907	4,678,921 +4,156,238 8,835,159
③	1,498,795 +4,586,392 6,085,187	2,640,711 +1,639,437 4,280,148	4,185,665 +3,859,845 8,045,510
④	8,256,596 +1,385,967 9,642,563	5,976,348 +2,365,899 8,342,247	3,625,378 +3,295,798 6,921,176
⑤	4,271,361 2,476,207 + 144,368 6,891,936	8,505,371 27,289 + 142,681 8,675,341	204,361 2,308,492 +6,459,006 8,971,859



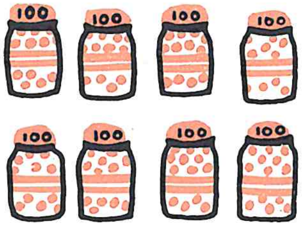
Find the differences.

	A	B	C
①	4,301,579 −3,276,448 1,025,131	6,878,900 −4,432,798 2,446,102	2,371,492 −1,645,069 726,423
②	5,370,074 −2,100,328 3,269,746	8,563,402 −3,685,574 4,877,828	9,831,220 −3,692,761 6,138,459
③	7,515,043 −6,149,297 1,365,746	1,432,981 − 648,297 784,684	4,090,004 −1,350,987 2,739,017
④	5,357,465 −3,278,018 2,079,447	8,960,402 −6,435,768 2,524,634	6,402,107 −2,264,849 4,137,258
⑤	1,000,000 − 1 999,999	6,451,026 −4,389,176 2,061,850	8,707,463 + 26,428 8,733,891

MULTIPLICATION

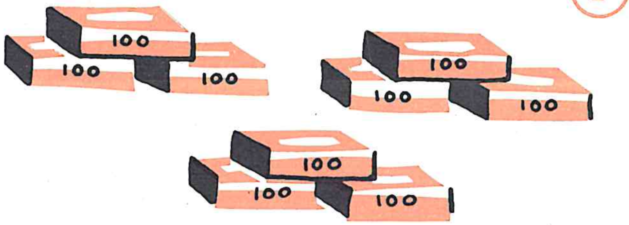
Copy and complete each equation.

①



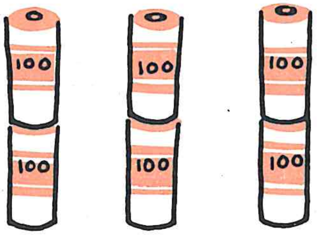
$$\begin{aligned} 2 \times 400 &= 2 \times (4 \times 100) \\ &= (2 \times 4) \times 100 \\ &= \underline{\ 8\ } \times 100 \\ &= \underline{\ 800\ } \end{aligned}$$

②



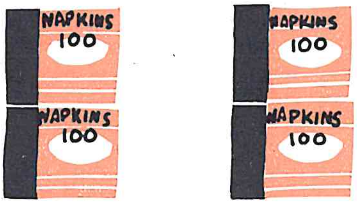
$$\begin{aligned} 3 \times 300 &= 3 \times (3 \times 100) \\ &= (3 \times 3) \times 100 \\ &= \underline{\ 9\ } \times 100 \\ &= \underline{\ 900\ } \end{aligned}$$

③



$$\begin{aligned} 3 \times 200 &= 3 \times (2 \times 100) \\ &= (3 \times 2) \times 100 \\ &= \underline{\ 6\ } \times 100 \\ &= \underline{\ 600\ } \end{aligned}$$

④



$$\begin{aligned} 2 \times 200 &= 2 \times (2 \times 100) \\ &= (2 \times 2) \times 100 \\ &= \underline{\ 4\ } \times 100 \\ &= \underline{\ 400\ } \end{aligned}$$

$$\begin{array}{r} 200 + 30 + 4 \\ \times \qquad\qquad 2 \\ \hline 400 + 60 + 8 \end{array} = \underline{468}$$

$$\begin{array}{r} 234 \\ \times \quad 2 \\ \hline 468 \end{array}$$

Find the products.

1a

$$\begin{array}{r} 200 + 10 + 2 \\ \times \qquad\qquad 4 \\ \hline 800 + 40 + 8 \end{array} = \underline{848}$$

1b

$$\begin{array}{r} 212 \\ \times \quad 4 \\ \hline 848 \end{array}$$

2a

$$\begin{array}{r} 300 + 40 + 3 \\ \times \qquad\qquad 2 \\ \hline 600 + 80 + 6 \end{array} = \underline{686}$$

2b

$$\begin{array}{r} 343 \\ \times \quad 2 \\ \hline 686 \end{array}$$

3a

$$\begin{array}{r} 200 + 30 + 2 \\ \times \qquad\qquad 3 \\ \hline 600 + 90 + 6 \end{array} = \underline{696}$$

3b

$$\begin{array}{r} 232 \\ \times \quad 3 \\ \hline 696 \end{array}$$

4a

$$\begin{array}{r} 400 + 30 + 3 \\ \times \qquad\qquad 2 \\ \hline 800 + 60 + 6 \end{array} = \underline{866}$$

4b

$$\begin{array}{r} 433 \\ \times \quad 2 \\ \hline 866 \end{array}$$

#49

Find the products.

	A	B	C	D	E	F
①	314 × 2 628	123 × 3 369	410 × 2 820	302 × 3 906	443 × 2 886	101 × 5 505
②	221 × 4 884	132 × 3 396	201 × 4 804	124 × 2 248	121 × 3 363	110 × 5 550
③	134 × 2 268	131 × 3 393	210 × 4 820	332 × 2 664	341 × 2 682	212 × 4 848
④	312 × 2 624	150 × 1 150	423 × 1 423	313 × 3 939	121 × 4 484	432 × 2 864
⑤	331 × 3 993	112 × 4 448	144 × 2 288	130 × 3 390	432 × 2 864	221 × 4 884
⑥	231 × 3 693	212 × 4 848	123 × 3 369	120 × 2 240	121 × 4 484	402 × 2 804
⑦	220 × 4 880	321 × 3 963	234 × 2 468	221 × 3 663	101 × 5 505	214 × 2 428
⑧	210 × 4 840	324 × 2 648	120 × 4 480	203 × 3 609	332 × 2 664	333 × 3 999

$$\begin{array}{r} 200 + 10 + 7 \\ \times \qquad\qquad 3 \\ \hline 600 + 30 + 21 = \underline{651} \end{array} \qquad\qquad \begin{array}{r} 2\,\overset{2}{1}\,7 \\ \times \quad 3 \\ \hline 6\,5\,1 \end{array}$$

Find the products.

①a

$$\begin{array}{r} 300 + 20 + 5 \\ \times \qquad\qquad 3 \\ \hline 900 + 60 + 15 = \underline{975} \end{array}$$

①b

$$\begin{array}{r} 325 \\ \times \quad 3 \\ \hline 975 \end{array}$$

②a

$$\begin{array}{r} 100 + 20 + 4 \\ \times \qquad\qquad 4 \\ \hline 400 + 80 + 16 = \underline{496} \end{array}$$

②b

$$\begin{array}{r} 124 \\ \times \quad 4 \\ \hline 496 \end{array}$$

③a

$$\begin{array}{r} 100 + 10 + 5 \\ \times \qquad\qquad 5 \\ \hline 500 + 50 + 25 = \underline{575} \end{array}$$

③b

$$\begin{array}{r} 115 \\ \times \quad 5 \\ \hline 575 \end{array}$$

④a

$$\begin{array}{r} 300 + 40 + 7 \\ \times \qquad\qquad 2 \\ \hline 600 + 80 + 14 = \underline{694} \end{array}$$

④b

$$\begin{array}{r} 347 \\ \times \quad 2 \\ \hline 694 \end{array}$$

#50

Find the products.

	A	B	C	D
①	217 × 3 651	123 × 4 492	437 × 2 874	105 × 7 735
②	116 × 6 696	325 × 3 975	215 × 4 860	349 × 2 698
③	216 × 4 864	117 × 4 468	226 × 3 678	217 × 4 868
④	227 × 2 454	338 × 2 676	118 × 3 354	218 × 3 654
⑤	304 × 3 912	219 × 4 876	446 × 2 892	119 × 5 595
⑥	224 × 4 896	114 × 5 570	309 × 3 927	135 × 2 270
⑦	115 × 5 575	327 × 3 981	124 × 4 496	446 × 2 892
⑧	435 × 2 870	217 × 4 868	114 × 5 570	214 × 3 642

#51

Find the products.

	A	B	C	D	E
①	219 × 4 876	327 × 2 654	108 × 3 324	113 × 5 565	326 × 3 978
②	309 × 2 618	215 × 4 860	116 × 6 696	116 × 5 580	229 × 3 687
③	218 × 2 436	325 × 3 975	239 × 2 478	208 × 4 832	117 × 5 585
④	127 × 3 381	215 × 4 860	106 × 5 530	328 × 3 984	237 × 2 474
⑤	229 × 2 458	207 × 4 828	345 × 2 690	216 × 3 648	325 × 3 975
⑥	438 × 2 876	117 × 5 585	116 × 4 464	246 × 2 492	217 × 3 651
⑦	223 × 4 892	103 × 5 515	114 × 5 570	124 × 4 496	345 × 2 690
⑧	129 × 3 387	219 × 4 876	109 × 5 545	324 × 3 972	448 × 2 896

$$\begin{array}{r} 100 + 80 + 2 \\ \times \qquad\qquad 4 \\ \hline 400 + 320 + 8 \end{array} = \underline{728}$$

$$\begin{array}{r} \overset{3}{1}\,8\,2 \\ \times \quad 4 \\ \hline 7\,2\,8 \end{array}$$

Find the products.

1a

$$\begin{array}{r} 100 + 70 + 3 \\ \times \qquad\qquad 2 \\ \hline 200 + 140 + 6 \end{array} = \underline{346}$$

1b

$$\begin{array}{r} 173 \\ \times \quad 2 \\ \hline 346 \end{array}$$

2a

$$\begin{array}{r} 200 + 60 + 4 \\ \times \qquad\qquad 2 \\ \hline 400 + 120 + 8 \end{array} = \underline{528}$$

2b

$$\begin{array}{r} 264 \\ \times \quad 2 \\ \hline 528 \end{array}$$

3a

$$\begin{array}{r} 100 + 50 + 1 \\ \times \qquad\qquad 3 \\ \hline 300 + 150 + 3 \end{array} = \underline{453}$$

3b

$$\begin{array}{r} 151 \\ \times \quad 3 \\ \hline 453 \end{array}$$

4a

$$\begin{array}{r} 200 + 40 + 2 \\ \times \qquad\qquad 4 \\ \hline 800 + 160 + 8 \end{array} = \underline{968}$$

4b

$$\begin{array}{r} 242 \\ \times \quad 4 \\ \hline 968 \end{array}$$

#52

Find the products.

	A	B	C	D
①	182 × 4 728	251 × 3 753	364 × 2 728	151 × 5 755
②	242 × 3 726	183 × 2 366	152 × 4 608	273 × 3 819
③	161 × 5 805	170 × 4 680	492 × 2 984	191 × 4 764
④	281 × 3 843	171 × 5 855	130 × 5 650	172 × 4 688
⑤	131 × 7 917	394 × 2 788	121 × 5 605	292 × 3 876
⑥	163 × 3 489	160 × 4 640	181 × 5 905	452 × 2 904
⑦	273 × 2 546	151 × 3 453	141 × 5 705	162 × 4 648
⑧	350 × 2 700	231 × 4 924	161 × 5 805	151 × 5 755

#53

Find the products.

	A	B	C	D	E
①	170 × 5 850	131 × 7 917	481 × 2 962	121 × 7 847	253 × 3 759
②	362 × 2 724	161 × 6 966	141 × 3 423	182 × 3 546	492 × 2 984
③	151 × 4 604	180 × 5 900	170 × 4 680	160 × 5 800	170 × 3 510
④	191 × 4 764	392 × 2 784	154 × 4 616	181 × 3 543	130 × 4 420
⑤	162 × 3 486	264 × 2 528	161 × 5 405	272 × 3 816	294 × 2 588
⑥	172 × 4 688	131 × 6 786	374 × 2 748	252 × 2 504	251 × 3 753
⑦	171 × 5 855	192 × 4 768	181 × 5 905	182 × 4 728	474 × 2 948
⑧	263 × 3 789	153 × 3 459	191 × 5 755	162 × 4 648	483 × 2 966

#54

$$\begin{array}{r} 100 + 40 + 7 \\ \times \quad\quad\quad\quad 6 \\ \hline 600 + 240 + 42 \end{array} = \underline{882}$$

$$\begin{array}{r} \scriptstyle 2\ 4\ \ \\ 1\ 4\ 7 \\ \times \quad 6 \\ \hline 8\ 8\ 2 \end{array}$$

Find the products.

	A	B	C	D
①	168 × 5 840	154 × 4 616	142 × 6 852	487 × 2 974
②	123 × 7 861	279 × 3 837	124 × 8 992	113 × 8 904
③	456 × 2 912	157 × 5 785	238 × 4 952	149 × 6 894
④	123 × 8 984	158 × 3 474	169 × 4 676	119 × 8 952
⑤	119 × 7 833	149 × 5 745	238 × 3 714	138 × 6 828
⑥	167 × 3 501	127 × 7 889	239 × 4 956	289 × 2 578

#55

Find the products.

	A	B	C	D	E
①	118 × 8 944	498 × 2 996	127 × 6 762	248 × 4 992	457 × 2 914
②	138 × 7 966	168 × 5 840	249 × 3 747	126 × 7 882	124 × 8 992
③	247 × 4 988	145 × 6 870	137 × 5 685	486 × 2 972	159 × 3 477
④	156 × 4 624	308 × 3 924	156 × 6 936	109 × 5 545	158 × 4 632
⑤	129 × 7 903	107 × 8 856	369 × 2 738	257 × 3 771	104 × 9 936
⑥	247 × 4 988	164 × 3 492	137 × 7 959	158 × 5 790	109 × 6 654

#56

Find the products.

	A	B	C	D	E
①	458 × 2 916	107 × 9 963	105 × 8 840	297 × 2 594	176 × 5 880
②	147 × 6 882	398 × 2 796	169 × 3 507	267 × 2 534	258 × 3 774
③	116 × 7 812	247 × 3 741	159 × 4 636	158 × 5 790	157 × 6 942
④	248 × 4 992	137 × 7 959	109 × 6 654	129 × 7 903	118 × 8 944
⑤	106 × 9 954	138 × 7 966	192 × 5 960	128 × 6 768	104 × 7 728
⑥	136 × 6 816	136 × 5 680	193 × 4 792	109 × 9 981	117 × 8 936

#57

$$\begin{aligned} 7 \times 300 &= 7 \times (3 \times 100) \\ &= (7 \times 3) \times 100 \\ &= 21 \times 100 \\ &= \underline{2{,}100} \end{aligned}$$

$$\begin{array}{r} 300 \\ \times \quad 7 \\ \hline 2{,}100 \end{array}$$

Complete each equation.

① $8 \times 700 = \underline{56} \times 100 = \underline{5{,}600}$

③ $4 \times 500 = \underline{20} \times 100 = \underline{2{,}100}$

② $9 \times 900 = \underline{81} \times 100 = \underline{8{,}100}$

④ $3 \times 800 = \underline{24} \times 100 = \underline{2{,}400}$

Find the products.

	A	B	C	D	E
⑤	400 × 3 1,200	600 × 5 3,000	700 × 7 4,900	900 × 8 7,200	300 × 6 1,800
⑥	200 × 4 800	500 × 9 4,500	800 × 2 1,600	400 × 7 2,800	700 × 9 6,300
⑦	900 × 6 5,400	600 × 8 4,800	300 × 7 2,100	400 × 9 3,600	800 × 8 6,400
⑧	908 × 9 8,172	328 × 7 2,296	429 × 6 2,574	756 × 5 3,780	807 × 6 4,842

#58

Find the products.

	A	B	C	D	E
①	218 × 8 1,744	356 × 4 1,424	398 × 3 1,194	749 × 4 2,996	617 × 7 4,319
②	307 × 8 2,456	439 × 5 2,195	728 × 4 2,912	536 × 6 3,216	467 × 3 1,401
③	248 × 5 1,240	915 × 7 6,405	409 × 8 3,272	125 × 9 1,125	654 × 8 5,232
④	905 × 3 2,715	317 × 9 2,853	643 × 9 5,797	856 × 3 2,568	627 × 5 3,135
⑤	609 × 9 5,481	517 × 6 3,102	689 × 2 1,378	756 × 2 1,512	624 × 8 4,992
⑥	569 × 2 1,138	794 × 3 2,382	638 × 3 1,914	286 × 4 1,144	637 × 5 3,185
⑦	497 × 4 1,988	248 × 5 1,240	359 × 6 2,154	908 × 9 8,172	518 × 8 4,144

#59

Find the products.

	A	B	C	D	E
①	146 × 7 1,022	459 × 5 2,295	760 × 9 6,840	635 × 4 2,540	835 × 9 7,515
②	605 × 3 1,815	348 × 6 2,088	529 × 7 3,703	406 × 8 3,248	726 × 6 4,356
③	304 × 4 1,216	692 × 5 3,460	258 × 9 2,322	987 × 2 1,974	538 × 5 2,690
④	907 × 6 5,442	589 × 4 2,356	328 × 7 2,296	624 × 8 4,992	278 × 4 1,112
⑤	538 × 6 3,228	964 × 3 2,892	364 × 6 2,184	173 × 9 1,557	999 × 9 8,991
⑥	538 × 3 1,614	965 × 2 1,930	497 × 3 1,491	265 × 6 1,590	906 × 4 3,624
⑦	407 × 7 2,849	984 × 9 8,856	397 × 8 3,176	946 × 7 6,622	318 × 7 2,226

#60

DIVISION

```
5 | 1 0 0
  −   5 0 |  1 0
  ---------
      5 0
  −   5 0 |  1 0
  ---------------
        0 |  2 0
```

```
5 | 1 0 0
 −1 0 0 | 2 0
 ----------------
      0 | 2 0
```

```
        2 0
5 | 1 0 0
  −1 0 0
  --------
        0
```

Find the quotients.

	A	B	C
①	$\begin{array}{r}60\\2\overline{)120}\end{array}$	$\begin{array}{r}90\\4\overline{)360}\end{array}$	$\begin{array}{r}80\\3\overline{)240}\end{array}$
②	$\begin{array}{r}200\\3\overline{)600}\end{array}$	$\begin{array}{r}90\\5\overline{)450}\end{array}$	$\begin{array}{r}30\\7\overline{)210}\end{array}$
③	$\begin{array}{r}60\\9\overline{)540}\end{array}$	$\begin{array}{r}80\\6\overline{)480}\end{array}$	$\begin{array}{r}80\\8\overline{)640}\end{array}$
④	$\begin{array}{r}60\\3\overline{)180}\end{array}$	$\begin{array}{r}40\\7\overline{)280}\end{array}$	$\begin{array}{r}50\\5\overline{)250}\end{array}$
⑤	$\begin{array}{r}40\\9\overline{)360}\end{array}$	$\begin{array}{r}60\\6\overline{)360}\end{array}$	$\begin{array}{r}30\\9\overline{)270}\end{array}$
⑥	$\begin{array}{r}70\\8\overline{)560}\end{array}$	$\begin{array}{r}60\\4\overline{)240}\end{array}$	$\begin{array}{r}60\\8\overline{)480}\end{array}$

#61

$$\begin{array}{r|l} 4\,\overline{)\,172} & \\ -160 & 40 \\ \hline 12 & \\ -\;\;12 & \;\;3 \\ \hline 0 & 43 \end{array}$$

$$\begin{array}{r} 40 \\ 4\,\overline{)\,172} \\ -160 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 43 \\ 4\,\overline{)\,172} \\ -160 \\ \hline 12 \\ -\;\;12 \\ \hline 0 \end{array}$$

Find the quotients.

	A	B	C
①	$\begin{array}{r} 46 \\ 6\,\overline{)\,276} \end{array}$	$\begin{array}{r} 37 \\ 7\,\overline{)\,259} \end{array}$	$\begin{array}{r} 99 \\ 5\,\overline{)\,495} \end{array}$
②	$\begin{array}{r} 22 \\ 8\,\overline{)\,176} \end{array}$	$\begin{array}{r} 57 \\ 3\,\overline{)\,171} \end{array}$	$\begin{array}{r} 97 \\ 4\,\overline{)\,388} \end{array}$
③	$\begin{array}{r} 25 \\ 7\,\overline{)\,175} \end{array}$	$\begin{array}{r} 34 \\ 5\,\overline{)\,170} \end{array}$	$\begin{array}{r} 44 \\ 3\,\overline{)\,132} \end{array}$
④	$\begin{array}{r} 26 \\ 6\,\overline{)\,156} \end{array}$	$\begin{array}{r} 64 \\ 7\,\overline{)\,448} \end{array}$	$\begin{array}{r} 64 \\ 8\,\overline{)\,512} \end{array}$
⑤	$\begin{array}{r} 89 \\ 9\,\overline{)\,801} \end{array}$	$\begin{array}{r} 54 \\ 4\,\overline{)\,216} \end{array}$	$\begin{array}{r} 47 \\ 6\,\overline{)\,282} \end{array}$

#62

Find the quotients.

	A	B	C	D
①	$\begin{array}{r} 49 \\ 4\overline{)196} \end{array}$	$\begin{array}{r} 46 \\ 6\overline{)276} \end{array}$	$\begin{array}{r} 59 \\ 7\overline{)413} \end{array}$	$\begin{array}{r} 32 \\ 5\overline{)160} \end{array}$
②	$\begin{array}{r} 39 \\ 3\overline{)117} \end{array}$	$\begin{array}{r} 42 \\ 8\overline{)336} \end{array}$	$\begin{array}{r} 53 \\ 9\overline{)477} \end{array}$	$\begin{array}{r} 32 \\ 6\overline{)192} \end{array}$
③	$\begin{array}{r} 58 \\ 4\overline{)232} \end{array}$	$\begin{array}{r} 35 \\ 7\overline{)245} \end{array}$	$\begin{array}{r} 36 \\ 4\overline{)144} \end{array}$	$\begin{array}{r} 36 \\ 8\overline{)288} \end{array}$
④	$\begin{array}{r} 35 \\ 9\overline{)315} \end{array}$	$\begin{array}{r} 94 \\ 3\overline{)282} \end{array}$	$\begin{array}{r} 68 \\ 6\overline{)408} \end{array}$	$\begin{array}{r} 49 \\ 5\overline{)245} \end{array}$
⑤	$\begin{array}{r} 52 \\ 7\overline{)364} \end{array}$	$\begin{array}{r} 37 \\ 8\overline{)296} \end{array}$	$\begin{array}{r} 53 \\ 7\overline{)371} \end{array}$	$\begin{array}{r} 85 \\ 5\overline{)425} \end{array}$
⑥	$\begin{array}{r} 85 \\ 3\overline{)255} \end{array}$	$\begin{array}{r} 43 \\ 9\overline{)387} \end{array}$	$\begin{array}{r} 63 \\ 4\overline{)252} \end{array}$	$\begin{array}{r} 64 \\ 6\overline{)384} \end{array}$
⑦	$\begin{array}{r} 77 \\ 6\overline{)462} \end{array}$	$\begin{array}{r} 44 \\ 8\overline{)352} \end{array}$	$\begin{array}{r} 34 \\ 7\overline{)238} \end{array}$	$\begin{array}{r} 43 \\ 8\overline{)344} \end{array}$
⑧	$\begin{array}{r} 39 \\ 6\overline{)234} \end{array}$	$\begin{array}{r} 87 \\ 4\overline{)348} \end{array}$	$\begin{array}{r} 54 \\ 9\overline{)486} \end{array}$	$\begin{array}{r} 76 \\ 3\overline{)228} \end{array}$
⑨	$\begin{array}{r} 48 \\ 8\overline{)384} \end{array}$	$\begin{array}{r} 38 \\ 7\overline{)266} \end{array}$	$\begin{array}{r} 72 \\ 4\overline{)296} \end{array}$	$\begin{array}{r} 83 \\ 6\overline{)498} \end{array}$

#63

$$\begin{array}{rr|r}
5 & \overline{)\,5\;0\;0} & \\
 & -5\;0\;0 & 1\;0\;0 \\ \cline{2-3}
 & 0 & 1\;0\;0
\end{array}
\qquad\qquad
\begin{array}{rr}
 & 1\;0\;0 \\
5 & \overline{)\,5\;0\;0} \\
 & -5\;0\;0 \\ \cline{2-2}
 & 0
\end{array}$$

Find the quotients.

① $\begin{array}{r} 100 \\ 3\,\overline{)\,300} \end{array}$

② $\begin{array}{r} 100 \\ 2\,\overline{)\,200} \end{array}$

③ $\begin{array}{r} 100 \\ 6\,\overline{)\,600} \end{array}$

④ $\begin{array}{r} 100 \\ 9\,\overline{)\,900} \end{array}$

⑤ $\begin{array}{r} 100 \\ 7\,\overline{)\,700} \end{array}$

⑥ $\begin{array}{r} 100 \\ 4\,\overline{)\,400} \end{array}$

⑦ $\begin{array}{r} 100 \\ 8\,\overline{)\,800} \end{array}$

⑧ $\begin{array}{r} 100 \\ 1\,\overline{)\,100} \end{array}$

⑨ $\begin{array}{r} 100 \\ 5\,\overline{)\,500} \end{array}$

$$\begin{array}{rr|r}
3 & \overline{)\,3\;7\;2} & \\
 & -3\;0\;0 & 1\;0\;0 \\ \cline{2-3}
 & 7\;2 & \\
 & -\quad 6\;0 & 2\;0 \\ \cline{2-3}
 & 1\;2 & \\
 & -\quad 1\;2 & 4 \\ \cline{2-3}
 & 0 & 1\;2\;4
\end{array}
\qquad
\begin{array}{rr}
 & 1\;0\;0 \\
3 & \overline{)\,3\;7\;2} \\
 & -3\;0\;0 \\ \cline{2-2}
 & 7\;2
\end{array}
\qquad
\begin{array}{rr}
 & 1\;2\;0 \\
3 & \overline{)\,3\;7\;2} \\
 & -3\;0\;0 \\ \cline{2-2}
 & 7\;2 \\
 & -\quad 6\;0 \\ \cline{2-2}
 & 1\;2
\end{array}
\qquad
\begin{array}{rr}
 & 1\;2\;4 \\
3 & \overline{)\,3\;7\;2} \\
 & -3\;0\;0 \\ \cline{2-2}
 & 7\;2 \\
 & -\quad 6\;0 \\ \cline{2-2}
 & 1\;2 \\
 & -\quad 1\;2 \\ \cline{2-2}
 & 0
\end{array}$$

Find the quotients.

⑩ $\begin{array}{r} 127 \\ 2\,\overline{)\,254} \end{array}$

⑪ $\begin{array}{r} 1\text{[illegible]}4 \\ 3\,\overline{)\,342} \end{array}$

⑫ $\begin{array}{r} 118 \\ 4\,\overline{)\,472} \end{array}$

⑬ $\begin{array}{r} 114 \\ 5\,\overline{)\,570} \end{array}$

⑭ $\begin{array}{r} 117 \\ 4\,\overline{)\,468} \end{array}$

⑮ $\begin{array}{r} 119 \\ 3\,\overline{)\,357} \end{array}$

#64

Find the quotients.

	A	B	C	D
①	113 $7\overline{)791}$	113 $4\overline{)452}$	115 $5\overline{)575}$	114 $6\overline{)684}$
②	149 $2\overline{)298}$	112 $8\overline{)896}$	114 $7\overline{)798}$	124 $4\overline{)496}$
③	112 $6\overline{)672}$	124 $3\overline{)372}$	118 $3\overline{)354}$	113 $5\overline{)565}$
④	116 $4\overline{)464}$	114 $4\overline{)456}$	147 $2\overline{)294}$	125 $3\overline{)375}$
⑤	115 $6\overline{)690}$	126 $3\overline{)378}$	116 $6\overline{)696}$	114 $4\overline{)456}$
⑥	116 $5\overline{)580}$	118 $5\overline{)590}$	117 $3\overline{)351}$	119 $2\overline{)238}$
⑦	116 $3\overline{)348}$	136 $2\overline{)272}$	128 $3\overline{)384}$	117 $5\overline{)585}$
⑧	139 $2\overline{)278}$	119 $4\overline{)476}$	123 $4\overline{)492}$	115 $3\overline{)345}$
⑨	~~[illegible]~~112 $7\overline{)784}$	113 $6\overline{)678}$	127 $3\overline{)381}$	119 $5\overline{)595}$

#6

$$\begin{array}{r|r|l} 2 & 600 & \\ & -200 & 100 \\ \cline{2-3} & 400 & \\ & -200 & 100 \\ \cline{2-3} & 200 & \\ & -200 & 100 \\ \cline{2-3} & 0 & 300 \end{array}
\qquad
\begin{array}{r|r|l} 2 & 600 & \\ & -600 & 300 \\ \cline{2-3} & 0 & 300 \end{array}
\qquad
\begin{array}{rr} & 300 \\ \cline{2-2} 2 & \big) 600 \\ & -600 \\ \cline{2-2} & 0 \end{array}$$

Find the quotients.

① $\begin{array}{r} 400 \\ 2\,\overline{)\,800} \end{array}$ ② $\begin{array}{r} 300 \\ 3\,\overline{)\,900} \end{array}$ ③ $\begin{array}{r} 200 \\ 4\,\overline{)\,800} \end{array}$

④ $\begin{array}{r} 300 \\ 2\,\overline{)\,600} \end{array}$ ⑤ $\begin{array}{r} 200 \\ 2\,\overline{)\,400} \end{array}$ ⑥ $\begin{array}{r} 200 \\ 3\,\overline{)\,600} \end{array}$

$$\begin{array}{r|r|r} 4 & 852 & \\ & -800 & 200 \\ \cline{2-3} & 52 & \\ & -\ \ 40 & 10 \\ \cline{2-3} & 12 & \\ & -\ \ 12 & 3 \\ \cline{2-3} & 0 & 213 \end{array}
\qquad
\begin{array}{rr} & 200 \\ \cline{2-2} 4 & \big) 852 \\ & -800 \\ \cline{2-2} & 52 \end{array}
\qquad
\begin{array}{rr} & 210 \\ \cline{2-2} 4 & \big) 852 \\ & -800 \\ \cline{2-2} & 52 \\ & -\ \ 40 \\ \cline{2-2} & 12 \end{array}
\qquad
\begin{array}{rr} & 213 \\ \cline{2-2} 4 & \big) 852 \\ & -800 \\ \cline{2-2} & 52 \\ & -\ \ 40 \\ \cline{2-2} & 12 \\ & -\ \ 12 \\ \cline{2-2} & 0 \end{array}$$

Find the quotients.

⑦ $\begin{array}{r} 215 \\ 3\,\overline{)\,645} \end{array}$ ⑧ $\begin{array}{r} 415 \\ 2\,\overline{)\,830} \end{array}$ ⑨ $\begin{array}{r} 217 \\ 4\,\overline{)\,868} \end{array}$

⑩ $\begin{array}{r} 227 \\ 3\,\overline{)\,681} \end{array}$ ⑪ $\begin{array}{r} 428 \\ 2\,\overline{)\,856} \end{array}$ ⑫ $\begin{array}{r} 446 \\ 4\,\overline{)\,892} \end{array}$

#66

Find the quotients.

	A	B	C	D
①	$\begin{array}{r}425\\2\overline{)850}\end{array}$	$\begin{array}{r}216\\4\overline{)864}\end{array}$	$\begin{array}{r}318\\3\overline{)954}\end{array}$	$\begin{array}{r}219\\4\overline{)876}\end{array}$
②	$\begin{array}{r}229\\3\overline{)687}\end{array}$	$\begin{array}{r}335\\2\overline{)670}\end{array}$	$\begin{array}{r}326\\3\overline{)978}\end{array}$	$\begin{array}{r}248\\2\overline{)496}\end{array}$
③	$\begin{array}{r}226\\4\overline{)852}\end{array}$	$\begin{array}{r}227\\2\overline{)454}\end{array}$	$\begin{array}{r}319\\3\overline{)957}\end{array}$	$\begin{array}{r}218\\4\overline{)872}\end{array}$
④	$\begin{array}{r}224\\4\overline{)896}\end{array}$	$\begin{array}{r}228\\3\overline{)684}\end{array}$	$\begin{array}{r}329\\2\overline{)658}\end{array}$	$\begin{array}{r}324\\3\overline{)972}\end{array}$
⑤	$\begin{array}{r}215\\4\overline{)860}\end{array}$	$\begin{array}{r}246\\2\overline{)492}\end{array}$	$\begin{array}{r}482\\2\overline{)964}\end{array}$	$\begin{array}{r}262\\3\overline{)786}\end{array}$
⑥	$\begin{array}{r}329\\3\overline{)987}\end{array}$	$\begin{array}{r}316\\2\overline{)632}\end{array}$	$\begin{array}{r}287\\2\overline{)574}\end{array}$	$\begin{array}{r}292\\3\overline{)876}\end{array}$
⑦	$\begin{array}{r}244\\4\overline{)976}\end{array}$	$\begin{array}{r}314\\3\overline{)942}\end{array}$	$\begin{array}{r}159\\3\overline{)477}\end{array}$	$\begin{array}{r}216\\4\overline{)864}\end{array}$
⑧	$\begin{array}{r}239\\2\overline{)478}\end{array}$	$\begin{array}{r}316\\3\overline{)948}\end{array}$	$\begin{array}{r}485\\2\overline{)970}\end{array}$	$\begin{array}{r}318\\3\overline{)954}\end{array}$
⑨	$\begin{array}{r}338\\2\overline{)676}\end{array}$	$\begin{array}{r}251\\3\overline{)753}\end{array}$	$\begin{array}{r}214\\4\overline{)856}\end{array}$	$\begin{array}{r}213\\4\overline{)852}\end{array}$

STORY PROBLEMS

HELPERS AT OAK SCHOOL

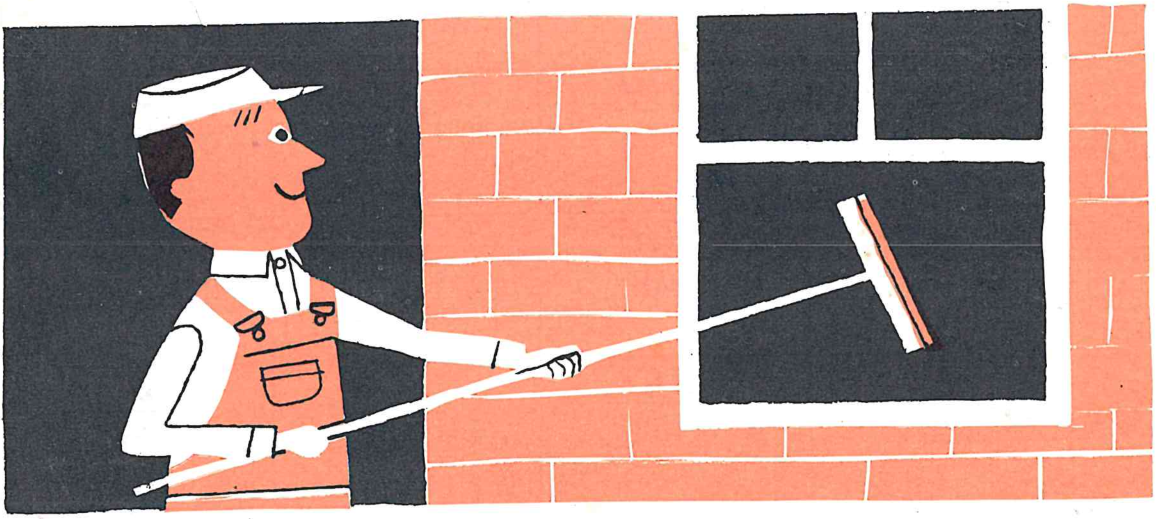
Work the story problems.

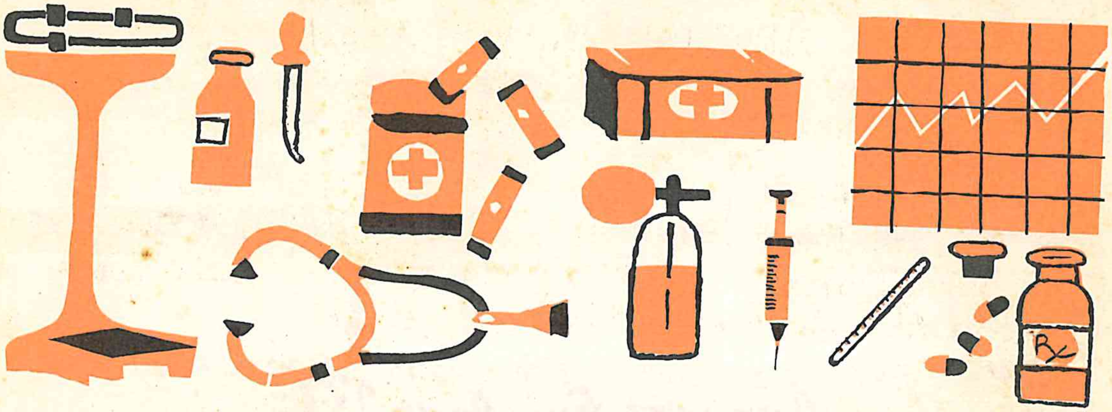
1. Mr. Goodman, the janitor at Oak School planned to wash the windows. He knew that he could wash 9 windows in one hour. It would take him 4 hours to wash the 36 windows on the first floor.

2. Mr. Goodman's helper polished the doorknobs. On each of the 4 floors of the school he counted 138 knobs. He polished 552 doorknobs.

3. Mr. Goodman and his helper varnished 127 desks each of the 5 days of spring vacation. When the children returned to school they thought these 635 desks looked nearly new.

4. Mr. Goodman was very proud of the school garden. He had planted 138 bulbs in each of 7 rows. Now the 966 plants were in full bloom.





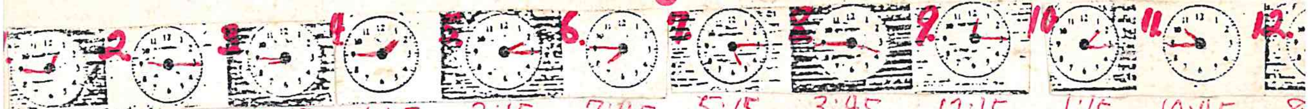
IN THE NURSE'S OFFICE

Work the story problems.

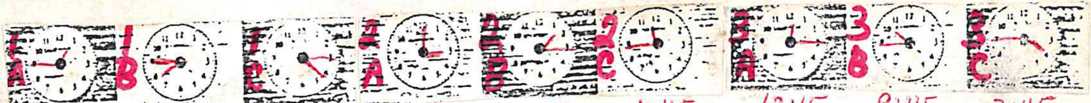
1. Mrs. Jolly, the school nurse, put away 384 boxes of cotton which had just arrived. On each of the 8 empty shelves in her cupboard she placed the same number of boxes. The top shelf held 48 boxes of cotton.
2. Three large bottles of cough drops came with the order. Each bottle held 298 cough drops. Mrs. Jolly had ordered 894 cough drops.
3. Mrs. Jolly kept a record of the weights of the boys and girls. It took her 5 days to weigh the 675 children in the school. She weighed the same number of children each day. On the fifth day she found out the weights of 135 boys and girls.
4. Each morning for 6 days Mrs. Jolly checked the eyes of 53 girls. 318 girls visited the nurse's office these 6 mornings. Each afternoon Mrs. Jolly checked the eyes of 51 boys. It took her 7 days to complete this job. 357 boys came through her office these 7 afternoons.

(Note: "Three hundred eighteen" and "three hundred fifty-seven" can also be accepted as words.)

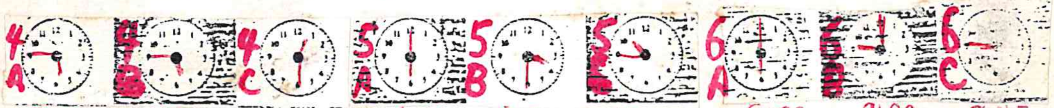
Answers for Page 228:



1. 12:45
2. 9:15
3. 8:45
4. 1:45
5. 2:15
6. 7:45
7. 5:15
8. 3:45
9. 12:15
10. 1:15
11. 10:45
12. 8

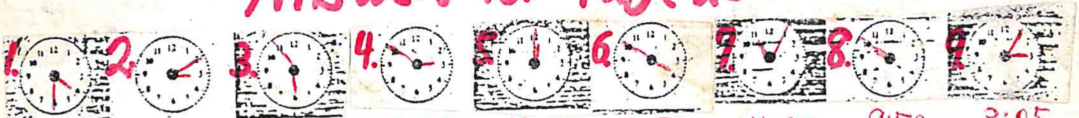


1 A 12:45
1 B 7:45
1 C 4:15
2 A 3:00
2 B 1:15
2 C 1:45
3 A 12:15
3 B 9:45
3 C 3:45

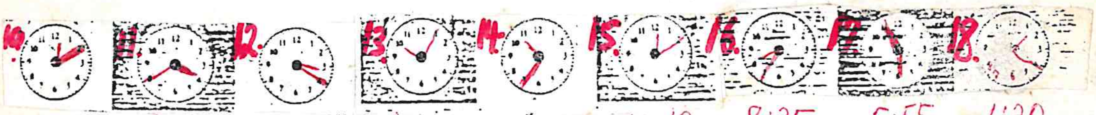


4 A 5:45
4 B 5:45
4 C 12:30
5 A 6:00
5 B 3:30
5 C 10:45
6 A 6:00
6 B 9:00
6 C 8:45

Answers for Page 233:

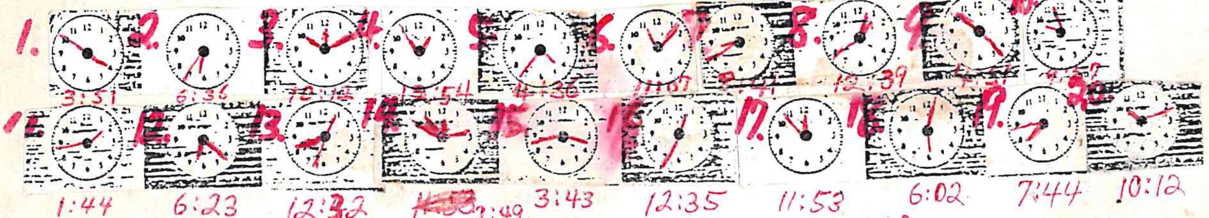


1. 4:30
2. 3:10
3. 5:55
4. 2:50
5. 12:00
6. 3:50
7. 11:05
8. 9:50
9. 3:05



10. 12:10
11. 3:40
12. 3:20
13. 10:05
14. 10:35
15. 12:10
16. 8:35
17. 5:55
18. 1:20

Answers for Page 237:



1. 3:51
2. 6:36
3. 10:12
4. 11:54
5. 4:36
6. 11:07
7. 8:41
8. 12:39
9. 4:51
10. 9:57
11. 1:44
12. 6:23
13. 12:32
14. ~~11:53~~ 2:49
15. 3:43
16. 12:35
17. 11:53
18. 6:02
19. 7:44
20. 10:12

Note: Because the clocks shown on this page are small, answers shown here are to be listed as correct.

N